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HAZAA59	778	105259 3	1 - 2872	15 - 2886	<p>             AU131675, AU124734, AU124657, AI808845, BE257123, AW838589, BE782010, AW362327, BG256702, AW362326, AI472139, BE819550, BG176935, AV705474, BE889998, BF798197, AW838581, BF038729, BF061399, AI360345, AI018260, BG109936, AW970171, AW608204, AI333379, BE819506, AW022268, AI923334, BE819539, AW964332, AA760946, AW958553,           </p>

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HPDRP02	779	105272 8	1 - 1627	15 - 1641	<p>AI127173, BF689120, AI833019, AI299951, AW950053, AI796694, BF569958, AI207840, AA905294, AI677681, BE395678, AA595291, AA595194, AA496648, AI185277, AW514815, AI267900, AW172940, AA541745, AI672913, AI191324, AI457407, AI749865, BE612917, AA541667, AW474854, AA932637, AI459873, AA936956, BE501657, AA600983, AW008141, AI813527, AA437336, AI813526, AA427585, AW970526, BE391199, AI769112, AI188975, AA706831, AA954972, AI521390, AI812098, AW170020, AA593556, AW068546, AA976022, AW001580, AA600270, AW130267, AI587132, AI635503, N39646, AA564063, AA995165, AI750626, AI080529, AI707459, AA743928, AA599926, AA447630, AW967399, AI749142, AI371879, AA552327, AA525853, BF055306, AI038815, AI048329, AA834008, BE391165, AA541782, AI189885, AI707522, AI086832, AI436627, AI304521, AI087181, AA481901, BF725693, AI832585, AW518701, AI749608, AI076047, AI797199, AA437391, AI025561, BG118128, AI301508, AA434030, AI288407, AA534237, AI367324, AI222841,</p>

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HMALJ21	780	105287 4	1 - 2012	15 - 2026	<p>AL519388, BG259676, BE277678, AW205482, BE869625, BF316260, AI277584, AW664331, BE622336, AL519387, AW662197, AW136690, W52642, AI250913, AW138798, BF740532, BE677906, AW138820, AW608260, N35182, N24280, BF768395, BE144069, BE905906, AI632485, AI655964, AI350527, AI632508, AA454785, AW088958, AA351397, T79897, AI095945, AI001211, AA116116, BF948656, AI695261, AI453666, AI467878, AI368974,</p>

					AW243613, AA928482, AI311394, AI308188, AI583510, AI023282, AA704892, C01811, AA522882, AI915997, R37609, AI116117, T39427, AI811517, AA255430, H45848, AI278218, AI090187, AW130406, AW665426, W23397, AW192328, AI094832, AI582197, BF197385, AI631532, BE672148, BE858838, AA454733, T97925, AA036929, AA180050, AA622644, H98713, AA987548, BE669564, AW368961, W51992, AK026046, AL008734, AX022320, AF131840, and AX022322.
HL YAR61	781	105303 7	1 - 769	15 - 783	BE539148, AV701008, AV725116, W46534, BF208088, BF382571, BF239279, AV723526, AA156901, AV655710, AI539186, AI418461, BF590840, AW954196, BE439596, BF571987, AI697932, BF673830, AI685500, AI015531, AA442557, AI949700, BE612620, AV701346, AI690126, AI807479, AA743893, AA427395, AA706606, BE091133, AI334957, AI093104, AA634337, AI247843, BF030479, BF029431, AI150112, AI912124, AI129790, W46170, BE466890, AW300000, AI280605, N32003, AA911924, W37946, AI689978, AA428154, AA628163, BE771950, AI268698, AA970845, T47498, N26101, BE004235, H82110, AW328343, W37884, H97954, BG114369, AI935379, AW014961, T47499, BF333867, AA229994, AA303594, W05782, R24400, H82111, AW361303, AA569753, AA156856, N71934, R53408, N77889, R02637, R24401, AA878435, AW168612, R01695, T34016, N36740, AA026193, AW661659, AA026265, BE394279, AA670493, T24763, AI245496, AA090760, AA029702, AA610033, AI089660, AA994488, AA860434, AW473074, AA769881, AW891864, AI814435, AW891684, AW891868, AW827103, AI560099, BG164558, AI921248, AL513991, AI120853, AI174394, BF816037, AL513999, AI699865, BF965789, AI637584, AL041772, BF970652, AW079159, AI677796, AI824648, AL514701, AL514867, AI627988, BF856017, AL513631, AI926790, AL513597, AI433157, AI702073, BF812961, AL513907, BF856052, BF812938, AL515413, AI611743, AI610690, BF904265, AL514087, AW198090, AW167228, AL513779, AW026882, BF812960, AW148363, AV735485, AW150578, AI564719, AW983691, AL513937, AL514493, AI554218, AL514627, AL513577, AI537303, AI815232, AI889376, AI830263, AL514983, AL514721, BG108324, BF032768, AI633125, BG116387, BE886728, AW827289, AI570884, AI619502, BF970731, AI499285, AI886753, BF885000, AI620284, BE965621, AL513947, AI478123, AI073952, AI783861, AI802542, AL513553, AL045500, AL514025, AL514473, BG114104, AL038445, AL037454, AA287231, AI687362, BE620084, AI119791, AI697304, BE879906, BE011885, BG109221, AI919345, BE910373, AW073865, AW104724, AL513977, BF526020, AI687065, AL514035, AL514879, BG108288, AL514359, AI587114, AI249877, AI590530, AI494343, AV764180, AI288050, BE965121, AI567360, AL513807, BG257611, AV714485, BG180996, AW163464, AL042544, AL036274, AI536685, AW983703, AI036631, BF868489, AW102924, AL514205, AI499191, AI539153, AI311926, BE047852, BG110946, AI249497, AW193530, AW073270, AW057937, AI682971, AI819326, AW148408, AW161579, AI801325, AW235745, AW051258, BE621256, AW021373, AI610671, AL514919, AV753074,



					BF827575, AI469532, AL040241, AL121655, AR075037, AC005290, X65873, AL117460, AL137459, AL110196, I89947, S61953, AL133080, AF143723, AL137523, I48978, AF057300, AF057299, AF111112, AL389982, AL353957, AK026865, AK024538, AL162006, A08916, AL133565, AL122110, A08913, AL133113, Y11254, AK025383, AK026353, AK025339, AK026624, AK025349, AF260566, AL122121, AK026647, AX019230, AL162083, AK026504, AL049452, AK026532, AB050510, AX014095, Z72491, AL359618, AL050149, AL442072, AL096744, AX019229, AK025414, AK026480, AK026959, AF090903, A03736, A08910, AF314091, AK026086, I89931, A08909, AK026744, AF079763, AK025312, AK026927, AF130082, AF130104, AR087170, AK000137, AF176651, I48979, Y14314, AL050393, AK025857, AK027204, AL133557, AL080158, AK025524, AL442082, AL110225, AK027113, AK026642, AF031147, AK026630, AF090901, AK000718, AL050277, AK026408, Y11587, AB047887, AK026045, AL050172, AL137550, AK027200, AF130075, AL137488, AF116688, AF090934, AF118094, AB048953, AB049758, AK026542, AF106862, AJ000937, AL359583, AK025092, AX020124, AL137527, U42766, AK027116, AF078844, AK000618, A65341, AF217966, AL390154, AK026613, AF183393, AL137538, S68736, AB007812, AF116602, AF090886, AL133075, AK026452, AL353940, AF175983, AK025632, AF113689, AL133093, AK025391, A77033, A77035, AL050116, AB052200, E15569, AF113676, U68387, AK026600, AL050138, AJ012755, AR038854, AF113690, AF113019, X82434, AF132205, AL080159, AL122111, AL110221, AL133016, AK026592, AL133568, AL122093, AL117435, AF116639, AF113677, AF119899, AB052191, AF113699, AF225424, AB048954, AK000083, S78214, AF146568, AL080137, AF104032, Y10655, AF116691, AF091084, AL359941, AL137526, AL049300, AF119875, AF067728, AX042059, AK025967, AF218014, AB047615, AF130092, AF061943, AF285167, AR059958, X84990, AF017152, AF242189, I09499, AF125948, AF130077, AK000323, AF113013, A12297, AL133072, AL133606, AL137548, E01614, E13364, AX040958, AL133560, AL137463, X00861, Y16645, AL133640, X70685, AB048919, AK000647, AK026784, AK025573, AF177401, AL389939, AF260436, AK026462, AL389935, AL390167, AL162002, AL080060, AF113694, AL353625, AK025410, AF100931, AF130066, AK027096, U67958, AL122050, AB041801, AJ299431, AL137271, AR070212, Z82022, X52128, AF090900, AF262032, AK025708, AF158248, AL117394, AL117432, X72889, AX026824, AX026823, A58524, A58523, E03348, AB033881, AL049466, AF130055, AL117457, AF087943, AK026583, AF130100, AF177336, AL359601, E07108, AF116649, AK025254, and AL122118.
HLTCQ80	782	105316 4	1 - 616	15 - 630	AL529504, AU130820, BE870204, AW594213, AA812811, AI685300, AL041426, AI339360, BE881085, AK001602, AF064801, AK025043, and AF064800.
HDTDU67	783	105317 1	1 - 1130	15 - 1144	AI701918, BG254806, AA921832, AW007649, AI620402, AI831129, BE048758, AI985974, AI000597, AI683794, AI669164, AA599078, AU150782, AI290796, BF514603, BF588503, AA604667, AI022848, AU155576, AU156459, AA747513, AU155795, W52775, AI469233,

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HOVDF79	786	105336 9	1 - 2312	15 - 2326	<p>AU119377, AI129991, BF109705, AI003504, BF970648, AI978786, AI942472, AI923428, AW157102, AI337325, AW305224, BF439855, AL043698, BE889977, AV708983, AI949346, AA779822, AW662369, AU145736, AU139589, BF336739, AA902404, AW450949, BE552252, BG054963, BE048768, AI183371, AI422983, BF478172, AI085398, AI624398, BF438641, AI743061, BE465292, BF797246, AW182966, AA653306, AA702436, AW408332, BE566450, AU145016, AW166329, AU154587, W73118, AI028580, AI088059, AW002495, AU158347, AI334137, AI432305, AI803106, AW104041, AW304421, AU158692, BE670915, AW238419, BF327057, BE253783, AU147362, AI684123, AA308483, AI034255, AI088358, AI095015, AI146768, AU149082, AI378977, AI718426, AI754081, AI002387, N51414, AI268360, AA810276, AI830449, AI151401, AU150212, AI375778, AI446077, BF115834, AI950139, AA779348, AU153375, W86275, AI088406, AI263017, AI094353, AI140293, AW803630, AU158571, W31856, AW606728, BF433824, AU159526, AI439425, AI745558, AU158090, AI057081, AU153897, AI160952, AW771340, AI248226, AA699336, AI370781, N50861, AI805789, AW080680, BE670404, AA284436, AA234679, AU157446, BF033408, AU150130, AA889342, AU149164, AA490361, AI800855, AI769864, AI043697, BF688126, BE503532, AW444986, AI266732, AW368126, AW368120, BF827396, W73138, AW873365, H82394, AW368023, AW263912, N80171, AU156841, W78224, AI803688, N34343, AA642583, R99060, AA962061, AA807778, AW772055, AA678399, AA225086, C04873, AA679450, AI783666, AI473702, AA628546, BE775239, BG059529, AA811471, AI909121, T34767, AA825759, H08335, BE178051, AA831866, AA768970, AI968631, H17949, AA292712, T08453, T16462, W81516, AA234752, AA225217, R62711, BE177869, AA247183, AI915047, W72185, AA362699, H17164, AW505122, AA709427, AI367965, AI367964, AW193572, R59387, Z38714, BE080939, AU118459, R44755, R99257, AA853740, R52397, AA099272, R99245, AW467886, AA480287, AW088296, T33541, T56948, AA098893, F02426, R63669, W81632, AW089041, R99049, AI933597, AI302303, W86309, AA917412, AA056449, AA301282, AW363137, AA532412, BE926640, T16601, BE844238, AW503719, AW196019, AI434011, BF082587, AI241010, AA978275, AW378894, F06155, BF733750, T35240, H12819, AA093937, AA095746, AI118913, N56371, W70334, AI588883, AA781204, BE708492, W77820, AV702009, BF762691, BE817855, BG058239, BF089716, BF692584, AI889870, F05792, AF315592, D43951, D87078, AF315591, AF315590, and</p>

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HOFMU50	788	105354 8	1 - 533	15 - 547	AU132452, AW291760, AI216391, AI525969, BF947708, BF337266, AK023260, AF267982, AF288992, AL121989, E17301, AB024568, AB007917, AF060178, AF169243, E17300, and D88811.
HE9MO38	789	105358 5	1 - 875	15 - 889	AA493380, AA334302, AW951691, AA313463, AA313497, BE902087, AA612692, AA321064, AW955000, BE742712, AW006877, AA299564, AI215629, BE811297, BE869635, AW242221, AI268131, BG025716, AI525357, BE875568, BE783028, BE537297, Y11484, AL136295, and X92720.
HOPJF55	790	105372 5	1 - 1158	15 - 1172	AL523613, AI583204, BG120734, BE614443, AI992172, BE886511, AI889239, AI075175, AW054762, AW471391, AI565737, AW519090, BE042738, BF732572, AI694195, AI394109, AA609929, AW167797, N30174, AI675145, AI333284, BE348940, AI348209, AW338504, AI262299, BE221339, AI140136, BE613836, AI190472, AW243822, AI142033, AA582569, AA464838, AI341876, AI357231, AA620776, AI333443, AI741278, AA865411, AA451663, AI677747, AI499958, AI292324, BF435957, W52760, AI751760, AI564037, AW297338, AI291569, AW170704, AI354944, AI498724, AI262436, AA620793, W52026, AW205638, AI247750, AW593472, AA777068, AA317293, AA582741, W03413, N46148, AA568649, AA722460, W78008, AI240599, AA923449, AA601169, BE150238, W87000, AW779522, BE812439, AA379596, AW263292, BE062962, AA379287, AA450251, AA341820, N40820, AA738207, AA853444, AW262564, H27217, C02525, AA922610, AI371985, AA359221, AW296820, AA853445, N36877, AA911932, BE693985, AW603029, AW950060, N67487, AA330786, AA581766, AA247429, AW605997, AA720994, R21859, AA341470, AW605998, R21862, AI701773, AI264461, R67787, AA992864, AI129067, W79893, AW198060, AI567586, AA857927, AI280922, R67788, N86551, AI916486, AA055177, AW580765, AI129037, BF062386, AA513284, AI149517, BE062965, AA450309, AA329559, AI971437, AI250656, AA296724, T12333, AI687174, AA091735, BF589785, AA092748, AI990853, BE077064, AA582377, AW243840, BF330684, H26201, AW603138, AX014087, U19718, AL049569, S68064, M59851, L23769, AJ009948, U19719, and AA055295.

HAOTD13	791	105374 6	1 - 994	15 - 1008	<p>BE799225, BE618864, BE799188, AI190314, BE902052, BE732626, BF338390, BE740450, AI148878, BE741535, BF690392, BE748721, AI081232, BE746546, BE314406, BE902235, BF316712, BE794590, AI204081, BE790602, BF975103, BE730656, BE745737, BF308298, BF969904, BF689453, AI983729, BE548414, BE618379, AA781462, BF315257, BF976258, BE745233, BG024416, BE902752, BE788069, BE255282, BE907398, AI079576, BE302855, BG118897, BE891433, BG258174, BG179007, BE255307, BE258767, AA778554, AV759912, BE540548, BE908456, AW026432, AW157348, BE748048, BG114783, AI820053, AW163407, BF975156, BE733757, BE903629, AW026229, BE905435, AI553851, AI857561, AI815796, BE733863, AI032535, BE855855, BE892753, BF797147, AA724133, BE855433, AW083250, AA412706, AA292189, BF789865, AA576423, BE535652, AA075512, BE019659, BE251323, BE019712, AI129134, AA075511, AI609823, AA551928, AA291788, AA399084, AA864673, AA399692, AA593943, AA397672, AA723613, W28583, AA310012, AI285038, AA405095, AI866592, AA774638, N22852, AW794779, AV742027, AI149026, AV717158, AA164510, AW089756, AW794764, AA886985, AL537527, AI291219, AI961557, W70096, AI015724, AA082829, AI041153, AI140036, AA725759, AA729842, R62749, AI568491, AW391249, AA287512, N58787, AW794782, AA101085, AV741366, AI290054, AI050996, AW794936, BF941032, AI692317, AW794876, BF125011, H99328, AW006955, BE300531, AI092733, W28780, BF210376, AW337357, F36786, AA076255, AI568190, AI929499, AA588108, AI929541, N91155, AW197007, AA994790, BF081605, AA971112, N35606, BF361421, AV738471, H95064, AA508023, AA287384, BE073579, BG056567, BF676892, R69908, BF674295, AI203456, AW381952, H61382, BG230794, AA477996, H48682, AW580580, AA287849, BF246820, AA481906, R23865, AW439138, AI350298, T95464, H81575, N26433, AA715821, AA367130, H70334, H94465, BF527562, AA310900, AA076254, H83767, AA917813, AA335277, AV735711, H62402, AA480101, AA747596, AI801317, AA340716, H94798, AI749929, T69061, T68984, AI953164, H61381, H48513, AW386817, AW250564, AA325135, AA336042, H93989, H83908, H96377, R78775, F19155, AA477997, BF687682, F31851, R33912, H03483, AV744024, AI458674, R92549, W16564, BF746771, BF821358, H03578, H62403, T99495, R48630, R79081, H20726, AI720532, T98906, H94558, F19427, BF738012, T19150, H98962, AW338431, BF820551, AI695819, AA317280, R22084, AI688669, H70335, R69863, BF331545, BF821444, AA304515, BF903687, R33024, N77476, AA345986, AA877573, AI871273, AX014335, X16312, M30448, AL132713, AP000504, X57152, AF129756, L15619, X52959, X56502, M98450, S56242, X56503, X80685, AF109719, AF133088, AX047063, A82595, A62298, AX047064, A62300, AR050070, A82593, AX047062, Z30183, U94592, AX009343, AX009337, AX009335, AX009345, AX009342, AX009344, AX009340, AX009339, AX009336, AX009338, AX009334, AX040581, T95360, R22031, H00821, R92456, H93990, H94701, H94703, H96376, N71296, W01604, AA164509, AA236016, AA588428, N83194, and D20309.</p>
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HODCJ32	792	105377 2	1 - 843	15 - 857	N98689, BE220444, AW014160, AI684332, AA908217, AI768199, AI420127, BE328071, AA256404, BF439620, AI268854, AI818740, AI859930, AA988651, AI240108, AI457355, AW193469, W88508, AI298653, AA705838, W90399, N66164, N64630, AA256298, AI123104, R51117, AA410637, AI565699, BE830775, AI090999, AI333934, AA321997, AI419686, N79959, AA019567, AC006160, and AB033102.
HOCPT34	793	105397 3	1 - 2343	15 - 2357	AI516637, AL336090, AU131623, AU128040, BE871627, BE887564, AI559471, BE782375, BF197393, AW300290, BF725147, AW580224, BE177290, AV726266, BG107708, AL533304, BF724858, AW771057, AU126185, BE294538, BE295415, AI033487, AL045011, AL045003, BE872512, BE350471, BE148091, AW303509, AW001892, AW962800, BF925269, BE967600, AI271904, AI863524, AA579942, BE969850, AI554943, BF951650, AV701826, BF951644, AA505945, AI424740, AA188625, BF947724, W87888, AA021522, M62015, AA451951, AV649739, AA179502, BG108051, Z43171, BE379997, AA179481, AW960727, F06685, W87815, BE934233, R74509, W20274, AW663636, AI394602, AI815234, F09307, AI263828, AA325948, BE328111, AW996063, BE503163, H24294, AW341860, AI698362, BF902323, BF889196, AI002877, T87325, AA355638, BE540171, AW379824, W21832, AW992687, F05888, BE090298, T87427, BF382925, BE095176, AI474826, AA188757, AA371304, Z42486, BE699743, BE170074, BF726249, AW510526, AA932578, BE552427, R89855, AW166687, BG178825, BF951590, BF726418, W86993, BF850658, W92023, BF842138, BE700038, BF088114, BF741571, BE958636, X81889, AC005042, U81005, DI7102, and AL050364.
HFKHC64	794	105401 5	1 - 1962	15 - 1976	AL520088, AL522023, AI669758, AL520087, BF313617, BE796161, BE867541, BF969868, BE870134, BE871582, AL040779, AW007648, AU133627, AU122531, BE795892, AU118141, BE617475, BF032557, AI813416, BF984498, AI922790, BE877667, BF981072, AI818627, AI683114, BE280176, BF593818, BE262646, BE873710, BF438287, BF313170, BE867308, BF880640, AW239514, AI859453, AI805461, BF312324, BF312686, AI817269, BE798516, BE262187, AL040778, BE670555, AI589223, AI859447, BF102546, AI827343, AI088366, AI038184, AW080985, AW029180, BE313320, BF881541, AA523906, AU124748, AA404715, AA757162, AA533530, BF984274, AU126959, AI751655, W86506, BE313538, BE536712, BE873642, AI366123, AA838403, AI583599, BE796350, BE502187, BE902265, AI636646, BF915019, AA668508, AI752316, AI079121, AI752315, AW137769, W59993, BF310591, BF762496, AI677762, R59727, AI751656, AA884168, AI039262, AA729713, AA112575, BE872221, BE879109, BF317243, AA112576, R73625, AA992193, AA225005, AA128885, R73697, AA076108, T52678, AI205653, T52677, BF765650, W52739, AA159180, AI084546, AA181476, R59836, AI806402, AA159258, BF740972, AA514833, BF841749, AW178873, AU076542, AW386949, AA133108, AW953790, AW351518, AW178870, AA404588, BF880633, AA364017, AW845180, AW386948, AI818328, AW386951, AW845174, AA225050, AA182944, AI652074, C00163, AA888456, AA888545, W86439, W69936,

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HOPKO37	795	105408 5	1 - 2104	15 - 2118		AL515664, AL524779, AL518207, BE797393, AL525979, BG119182, BF338628, AI978592, AW236571, AI950954, BE799316, AA976746, AI367649, BF737171, AU151637, AU151942, AW950551, AL522243, AL522244, AW291293, BF527370, AA100964, AI637966, BE906449, BF515686, AI973165, BE328566, AU150007, AI985899, BE350709, AW955183, AA903534, AL534285, N69879, AI683844, AI539699, AI862965, AA722542, AA157234, BF569979, BF928083, BF081481, AI937048, R21933, AA921357, AW263068, AW078559, RI5254, BG056697, AA853109, AI921712, AA501571, AA491761, T28437, AI417310, AA974219, BF514105, AA644634, D55622, T08014, AA173338, AW239549, AI675176, AI904931, BF529133, AW887766, BF924338, BE774190, M85424, AA484169, BF854146, BF960484, BF960491, H39733, BF850364, AI363763, BF310916, R85867, AA027031, AI479546, BF081518, BE163371, AI435672, R22582, BF930534, BF849651, BE544234, AA324089, BE073147, AW949191, BF756750, BE834207, AF187148, AF187147, X59267, U00802, AL110225, DI7530, and AB015042.
HNBVO53	796	105412 2	1 - 2424	15 - 2438		AU123514, BE797781, BF530408, BG110499, BG030912, BE253026, BF526281, AI655767, BG250155, BF063129, BE621171, BF348182, BE621844, AA532783, AU152557, AA936772, AW628190, BG107424, AW136709, BF344327, AU154567, AI569240, AI927300, AU152096, AU144363, BF313185, AA845914, BF476524, BE220478, AI685706, AA534332, BE779247, AW071965, AI970850, AA836622, AA121331, AA196265, N62385, AI023383, AA835031, AA309005, AI380911, AA837870, BF037753, BF929041, AI628778, BF897676, AW167088, AI635967, BE260887, AW026752, AA996092, AW591385, AA298626, AI446440, BE252176, BF815841, AA121494, AI872757, BF920701, AW948496, BF992448, AI671996, BE782229, AI359525, BE815916, N44199, BF328458, AI637865, T50194, T50139, BE314147, BF475277, AU133189, AI672561, AW880161, BF312475, BF815631, BF528463, AW364326, AW603816, BF897680, AI446734, BE730847, AL537364, BE263444, AR077146, U88153, AR077147, U88154, X75330, AL139383, AF177767, AK000250, U95739, AL022723, AF307337, AL078630, AC006944, AC010723, U72620, AC025735, AC006338, AC010088, AL353999, AC002287, AL050322, AL020995, and AW003538.
HOPKF84	797	105415 5	1 - 2008	15 - 2022		AV758100, BF980114, BF574278, BF970145, AV758858, AA628397, BF791399, AA628438, BF791467, AI743743, AA741499, AI767389, AI967956, BE380111, AV714052, AW103967, BE865483, BF208989, BE672325, AA768854, BG058541, BE564796, AV715992, AI677784, AA015599, AI765361, AW181895, BG170527, BF217259, AI811418, AA889584, AI934936, AW188257, BG109088, AI627968, AI435166, AW015219, BF217253, AI186649, BE672387, AI090415, AW967749, AI689149, BE672811, BF028345, AW301148, BF242906, BF477633, AI000120, BG112549, AA748367, AA465112, BG109521, BF894170, H81836, AA804217, AI891100, D79280, AA099034, AW016554, AA805297, AA970066, AI536041, D62658,

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HCQDQ11	798	105419 6	1 - 799	15 - 813	AL538129, AL525022, AI11183, BE896548, BE872112, AI174851, BE875361, BE877234, AV729201, BE880128, BE875412, BE879304, BE881218, AI133323, AI133348, BE877386, BE877647, BE881076, AV726346, AL513828, AI114736, BE879909, BE878894, AV728251, BE874647, BE878122, BE876531, AV706779, BE874520, AV705883, BE875889, BE879135, BE876719, BE881222, AV729465, BE876043, BE877496, BE898937, BE891387, BE879695, BE876425, BE877004, BE867307, BE878178, BE874747, BE870155, BE875792, BE878626, BE880711, BE877131, AV729314, BE877150, BE875858, BE877497, BE880762, BE874662, AI750078, AV706307, BE877757, AV725309, BE876651, BE877268, BE877390, BE873343, AV693283, AV705995, AV724988, BE892487, BE880690, BE873478, BE874696, AV725316, BE873954, BE879455, BE876550, BE876704, BE874926, BE879522, BE880948, BE877488, BE898560, AV702923, AI065146, BE898750, BE879410, BE874003, BE891700, BE878210, BE868527, BE881146, AL048390, BE879895, BE874445, AI110700, BE878213, BE868548, BE876098, AI147501, BE880602, BE875601, BE869133, AI749163, AV710316, BE879775, BE879302, BE870577, AI114553, BE874422, BE869149, AL036120, BE876785, AI133444, BE868532, BE899424, BE898986, AV726351, BE877242, BE897096, BE878330, AV709557, AV721544, BE897811, AV726493, AV760899, BE880425, BE880237, BE879859, BE878477, BE876062, BE867317, BE878677, BE875261, BE877643, BE896982, BE880140, BE880722, AI133486, BE868603, BE896992, BE875918, BE878900, BE875968, BE878422, AV708006, BE879413, BE895621, BE879761, AV706033, AV714977, BE875062, BE875955, BE877726, BE881506, BE880958, BE876884, BE877598, AV723290, BE543600, AI114723, AI174902, BE880977, BE881693, AV702580, BE877674, BE875438, BE873842, BE880947, BE874215, BE874402, BE876037, AV709615, BE875168, BG179400, BE878468, AV723029, BE894635, AA639334, BE880688, AI114569, AV705696, BE879688, AV723395, AV707010, AV659215, AV721627, AI721239, BE878238, AV702695, BE880276, BE877542, BE868786, AI110881, AI110734, BE878173, BE875310, BE873841, BE881638, BE881057, AV721920, AV708355, BE876568, AV725190, AI833114, AV722162, BE880950, AI114585, AV721831, BE898371, AV708529, AW583569, BE877813, BE877271, BE880442, AV723161, AV706277, AV759353, BE875398, AV722611, BE878381, AI720161, AI207615, BE895091, AV706568, BE880705, AV702323, BE877616, BE878333, BE877479, AV721391, AI133691, AI133302, BE875536, BE874084, BE881594, AI110877, AV700257, AI733732, BE880427, BE894655, BE877518, BE875382, BE881138, AV726110, BE881444, BE894924, AV721794, AV706979, AV727742, BE880157, AV648404, AR083056, I27367, X54629, AX039612, X62996, V00662, X93334, D38112, L08441, D38116, X93335, D38113, AL359334, X93347, D38114, X97707, AF134583,

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HTFML39	799	105423 0	1 - 1117	15 - 1131		<p>AL521566, AU132947, BE796018, BF315869, BF529521, BF342405, BG110483, BE728134, BF343720, BE730825, BE748876, BE548415, BE274864, BF339798, BF304364, BE732386, BF315441, BE786312, BF182790, BF968636, BF038254, BG255203, BG110675, BF035338, BG119773, BG119580, BG113551, BG104944, BF793179, BE789501, BE905838, BG253457, BF206217, BG169125, BE258630, BE905033, BE878321, BG117367, BE902660, BF340314, BE788244, BE898712, BG105366, BF313550, BG249903, BE899138, BE909568, BG026799, BE621592, BG179337, BE906113, BG115754, AV721524, BE893911, BE782221, BG035773, BG028967, BE904789, BE868117, BF183186, BE728460, BG028089, BE383131, BG165408, BE385011, BG169445, BG104995, BE255596, BG115817, BF310299, BF691775, BE875197, BE877408, BE386706, BF309091, BF964982, BF669408, BE880221, BF344914, BF971354, BF315104, BE314030, BE293308, BF697543, BE256255, BF679612, BE263605, BF673819, BE277661, BG110524, BE960835, BE873914, BE313764, BF668331, BE264281, BF793965, BF665289, BG117924, AV518666, AV701703, BF793392, BE547745, BE735901, AA126478, BF982353, AV708851, BF576741, AU154376, AI140261, BG259878, BF668401, AA933701, BG164948, AA311048, AA903801, AW069876, AW950229, N25666, BF677004, AI749940, BE313988, BF968021, AA844255, BE260225, AA923066, AI190054, AW516719, BF678818, BE905919, AI189989, AA683180, AA868208, AI200522, BF700293, AI151195, BF248227, AV748753, AA618277, AV704674, BE256823, AI003622, AA928475, AI698515, AI819243, AI636813, AI873651, AV748748, AI075108, BE905993, BE786788, AI264463, AI720873, AA405732, BF312219, AA617719, AW276899, BE748286, AV752868, AV724041, H96665, AI369903, BF971263, AI984852, H37980, AA976043, AI368683, AA676347, AV763783, AA632591, AA729917, AA041378, H39510, N78663, AI185253, W07016, N95711, H38201, AW169761, AW243746, AA195473, AI874282, AI860540, AW406435, AI077646, H22238, AI281822, BG170377, AI799707, D53319, BG168389, AA152179, AA618235, N79560, W20111, H70130, R33096, BF680267, AI547083, T59878, BE907521, AI524586, H70141, H70129, W59941, H67874, AA557768, AA337055, AI027038, AI288096, AA397637, AV750982, BF525883, BF477830, AI911809, W44943, AI205865, AA404266, AI244252, BF678473, W24865, N20095, AA935411, AI186009, N22863, AI001215, H15847, AA371710, AA864565, R83778, AW079732, W46569, W46988, H70142, AA460292, AA902854, AA565961, AV695742, AI524956, BE251888, AI000752, BE408617, BF927587, AI658831, R83344, AA902531, BF917194, AA481464, AW072107, R73752, M63573, M60857, M60457, U95646, D14073, X58990, M60456, AF071225, M63553, AX024013, D28465, T59969, R33189, R70193, R80575, R82525, H16158, H25156, H25499, H30503, H64624, H82596, H96541, N20397, N25489, N31525, N39292, N42464, N71262, N71712, N75425, N80056, W25031, W39593, N90698, AA088511, AA088510, AA190403, AA190547,</p>

	800	105423 5	1 - 195	15 - 209	AA464248, AA464356, AA505769, H64623, AA595399, AA576737, AA876188, AA932533, D79125, C18577, AA216170, AA291447, AA399168, AA401824, AA481699, D19714, F00911, AI569370, AI580599, AI123275, AI186758, AI658746, AI669237, AI685522, AI702373, AI858237, AI927851, AW005708, AW272962, AW297003, AW473332, and AW474648.
HOGCR32					D86958, and AB050017.
HFCDL60	801	105428 8	1 - 1145	15 - 1159	BE735923, AI97287, BG115092, BF984368, AV734956, BE782551, AW963436, BE734764, BF741486, AI417037, BE047487, AU139797, AW614852, BE206393, BE645429, AI570957, BE278325, AV685296, BG059639, AW085167, AI342088, AI091080, AI670117, BF317212, AI375955, BE727563, AA406138, AI674218, BF527302, BE260465, AI307214, AI039708, AI278555, AI308199, AI804252, BE397161, BE267961, AI143247, BE271284, AA179217, BE312935, BE857958, T60490, BE559957, AA179218, BF953246, BG248792, AA479955, BE396639, AW139810, AW800289, BE276441, BE312359, BF527732, AI290336, BF376689, BE409355, AA968854, BF819153, H81763, AW888756, AA297277, BE729397, AW800327, BE546083, AW888764, BE781522, H44302, BF312468, AA302994, T66192, R49957, N50982, F12041, BE904711, AI990689, AI990013, BF926592, AA825494, AI656978, AW025641, R59453, AA478857, AI633898, AI381847, AA234882, AW963831, AV761704, AW205263, BE397225, AA018203, BE390473, AA235309, AA298718, R50303, AA853469, BF792351, BE390003, BE561075, R50304, AA341701, BE830781, BF759397, BE296667, Z40331, AI123938, AA810959, BE908294, AI906347, AI906396, BE274582, BF028602, R47809, AA297899, AA477659, BE543777, BG122377, BE241908, BE311529, AA302955, BF767415, BF034042, BE269825, H81762, AA310733, BE276171, AW403784, AA297784, BE384715, BE968774, AA227218, AA730880, AA948131, BF819152, AI436806, AA171826, AW629605, BE409949, AA298947, AR077724, AF005038, AF295402, and AF295405.
HODEC13	802	105440 0	1 - 1587	15 - 1601	AL529027, BG032710, BF340863, AW298183, AW071103, BE280319, BE733423, AI597705, BF990521, BE295339, BE465216, BF990508, BF591357, BF990509, AA412658, W94248, AW139770, AA233003, BF305673, AI972011, AA926846, BE501013, F08452, BF205806, AI192772, AI215515, AI138422, AI360421, H85735, R19924, W67467, AI073920, AA359416, BF195137, BG250773, BE410047, BE703239, BG253012, AI971074, BF767322, AA360108, BE266899, R71864, AA628097, AA405160, AI870873, AA707220, BE799986, AI417320, AI990992, AI422884, BF061608, AI223130, W67468, AA422049, BE856683, BF063050, BE707658, AL390184, AC007059, AC006128, AB012265, and AB012266.
HUSYA18	803	105445 1	1 - 676	15 - 690	AI630915, BE315220, AI686944, AI817246, AW162565, BE748690, AA621824, AA613885, AA243477, AI148140, AA599322, BE748790, AA483552, AI096489, AA176242, BF437716, AW818628, AW818575, AA588407, AI862878, N95605, AA427425, AA412220, AW673918, AL527492, AI573043, AA470032, AA677651, AA577431, AA902530, AI434640, AI613297,

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HOCN42	804	105452 7	1 - 2437	15 - 2451	<p>AL519517, AL526142, AL534164, BE385756, BE621304, BG249081, BF313448, AW361554, BE886300, BE278345, AV704016, AV704423, BF798209, AW007684, BE792915, AA527297, AW374214, BE538768, BF337215, BE277949, BE294274, BG254330, AW207562, BF002700, AW578195, AI738569, BG169510, AW007693, AI553858, AI760425, AI669766, AI739483, BF808018, BE889821, BE782039, BE293113, BF125432, AI743185, BF154721, BF530774, BF808020, BF929315, AW851394, AW054902, AW207156, AW003601, AW361575,</p>

					<p>AI991291, AI049691, BF802491, AA223131, BF084670, BF750810, BF475801, AW103033, AU153483, BF927820, AW850936, BG118548, BF747951, BF814169, BF092988, AI310442, BF092995, BF092992, AI923807, BF809250, BF092962, BF093001, AI493604, BF591238, BF092993, AI499081, BF092997, BF092961, BF092994, BF934428, AI285965, BE934419, BF093229, BF892634, BF092975, BF092989, BF093211, BF093216, BF089329, BE934331, BE940289, BF093234, BF093000, BF093215, BF092972, BF089310, BE934460, BF092985, BF093222, BF092980, BF093221, BF093026, BF089321, BF093066, BF093218, BG033313, BF092977, BF092998, BE934480, AW135840, BF093230, BF092965, BF093225, AI369074, BF093224, BF092946, AW299929, AW651681, BF093089, BF093209, BF092990, BF093077, AW439515, BF093208, BF377524, BF747983, BF946471, BF093241, BF357108, AW136328, BF093210, BF377521, BE891425, BF765598, BF089204, BF093231, BF092939, AW579099, BF107443, BF377520, BF093107, BF093104, BF759372, BF093002, BE872574, BF827769, BE296190, AI351078, BF763271, AL135161, BF929296, BG010241, BF881021, AW845179, BF093022, AW895040, BF734196, BF092971, AI950167, BE174096, AU131810, BE903495, AW518521, AL046728, BG248622, AI245500, BE843839, AW580422, BE934328, AI057264, AW292493, BE730115, AI905742, BE077287, BE938501, AI654523, AI744139, AW195303, AW845183, AI631145, BF757539, BE672425, AA887978, AW087772, BE938484, AA678580, BE902690, BF925750, BF089203, BF931279, W45487, AA780897, AI758551, BF093097, BF800895, AW008009, BF757535, AW006821, BF436459, AI817321, AW862169, BF092967, BF092978, BF377511, AW881491, BE463552, L36983, AC007229, AK023207, L25605, L31398, L24562, L31396, L31397, L31395, AC011554, and AI825013.</p>
HKMNH37	805	105455 0	1 - 1937	15 - 1951	<p>BE794712, BF056090, BG032645, AW963359, AI609324, AI797094, AU141720, BE220504, N62821, AW384434, BE391552, AI745653, AI859678, AI242676, BE869868, BG231791, AW513142, AI276266, BE018033, AI190261, N32701, AU159211, AA487433, N22994, T19397, AA574187, AA515072, AA478927, AI867978, H69438, BF903409, AI631179, AA513388, BE182286, AI004755, AW044147, H54167, AI223797, AI745295, AA657750, AA687711, AI379463, D45484, AA342547, BE673591, BE749133, AA913123, W04381, W01356, AA478809, H69850, AA769538, F34761, BE749132, N74281, AA487641, AA430663, AA461437, H54010, R72030, BE409746, BE670301, BE383720, AI625849, AA461609, F20574, F20605, BE501211, BF903844, BE390109, AW512405, BE391291, BF988687, BF998811, H83563, AW131875, AA815068, AA456482, AA436517, N40421, AW103017, BF447897, BE002531, BE276832, AA377687, BE670898, AK023923, AL390142, and AF131763.</p>
HPDWP21	806	105466 2	1 - 1301	15 - 1315	<p>BF339802, AI246593, AI310122, AI830255, BG032489, AI859560, AI817151, BE746733, AI635257, BG120662, BF304489, BF690278, AI690868, AI863434, BF307587, BG167336, AI478877, AW962457, AW370524, AI912854, AI571578, BF836273, AI597983, BE868784, AI587206, BE295076, AA745041, AI828784, BF836265, BE299440, BF344501, AI687042,</p>

					<p>AI887413, BF837997, BG028533, AW748463, BF797660, BE547710, BF836263, AV762808, AI393487, AI313141, AV683267, AI393186, AI569916, AW608294, AA523382, BG121151, BF842761, AW997224, BF837983, BG253852, AA678226, AW956535, AA522881, BF837985, BF837981, AW505104, AI273638, AI250778, BF837994, AW338165, AI279740, AI858950, AI246290, AW405701, BE385250, BF853924, AI660627, BF836245, AA934738, AI753235, AW090588, AA604320, AA741423, AW631328, BE619670, BF570091, BF093171, AI206705, AI444933, BF740468, BE811103, AA947238, BE167258, BE811106, BE811099, H94645, BE811102, BE811092, BE811028, AW955100, AA076343, BE811081, R41853, H79450, BE811067, BE048120, BE811105, AW607926, AA617862, BE829528, BE878630, BF926799, AI431989, BE811075, BE811093, BE875213, AI269129, AW957533, AA640020, BF740469, BE694466, AW272192, BG035138, BE811083, AI753773, AW083081, AA296715, R83719, H50977, BE745364, BF932361, AA533714, BF736543, BF338112, AW192724, BF195530, BF445662, N20971, BF837988, AI042398, AI433918, AI679136, AI679710, AW511252, H79335, AA131573, R54390, R41303, BE742259, AW770307, AI264479, AI754912, AA604059, H53771, AA343126, AW518995, H44662, AI273773, BE811091, AW105718, BF955501, AW517997, AW498571, BE901878, BF691277, AI582460, BG005376, BF962648, AW869402, AW838929, BG104456, AA076342, BG005375, AI343291, AA470807, T30851, AA081221, AW193585, BF448558, R17242, AW970631, AA353626, AA954917, AA081011, T55421, AI658962, AA632282, T55498, BF570198, AW992217, AI972900, BE815834, AI417760, BG029779, BF690092, AA863150, D19779, BG056225, AW976048, BF084998, AW747942, BF994654, BF990589, AA471266, BG005726, AA367335, AI343584, AW057826, BG014583, BE836776, BE279410, BF836261, BE929139, BG005358, AA334546, AV73351, BF593923, AA015595, AW236294, H74172, BF836274, BF840147, BF953061, BE968711, H51631, H94644, R54389, AI799975, AF177198, AB028950, AF078828, X56123, AF178534, and AF113217.</p>
HOGCS2	807	105467 7	1 - 2631	15 - 2645	<p>AL530487, BE745421, BF530206, BE744240, BE732555, BE560832, BE728102, BE734494, BE900928, BF340173, BE899085, BG171027, BE407847, BF339012, BE391461, BE005931, BE387398, AW962475, BE392364, BF345275, BE870859, BE269190, BE280532, AA521235, AI569503, BE392132, AL530895, BE908923, BE295971, AW262804, AI264216, BE018918, BE890434, BE005979, BF961405, BF343159, BE715414, BE542338, BF792605, BE514659, AI636351, AI859499, BE675736, AI744758, AA758222, AW024550, AI126826, BF124910, AA594600, BF530317, AI567104, AI935268, AW510761, AI280100, BG149675, BG231713, AI363344, AA483476, BE245842, BE782378, BF896674, N72581, AI633705, AW082737, BF348228, AI291530, AI376854, AA862073, AA523423, AI439117, AA774640, AW360876, AA631579, BG006132, AI459751, BE504207, AW300087, AI673280, AI885032, AA405342, AA788862, BE218474, AI022088, BF896671, AA703032, AW341140, AW026262, AI168484, BE208332, BF376297, AA733166, AW574867, AA878000, AI693928, AA456364, AI377769,</p>



AI762166, BE295604, AA393265, T47288, BF995787, H80493, AW261896, AA682322, AI189548, BF338783, AA224519, BE828754, BG149772, AA398668, AW276800, BE828767, AW264368, AJ239429, C01609, N76973, BE294075, AW263725, H81411, AA813297, BG261025, BF594376, BF088543, AI362740, AW392277, BF70083, BE828760, BF309314, AW403980, R71977, AA574078, H00206, AI360375, AI949151, BE828785, BE089517, BF753501, N55486, W46600, BE828818, BG011135, BE828765, BG013533, BE828764, BE828755, AI991548, BE828784, BE828773, AA988364, AW408627, AI476154, BE828772, BE828763, BE828777, BE828813, BE828802, BE828774, BE828753, AW592301, BE828608, T58646, BE828807, BF372548, BE828817, R73494, BF359084, AW374260, BE828775, AI796868, AI948980, BE770090, BE156325, R73493, AI284200, BE828812, AI858455, BF359052, BE395483, AW316844, AA580230, AW302496, AV682937, BF510303, BE828766, BE828741, BE770069, BE828804, AW613792, D78676, BE828732, W46599, BE770079, AI089718, BF336410, BE001474, W02183, BE828816, AI420509, BF849624, BE828821, AA962198, BE828811, BE828757, AW469085, AI262650, R38776, AI857255, BE243177, BE828778, BE828801, BE828835, AI784360, BE828815, BE828803, BF376437, BF359073, AW167008, BE770068, BE770087, BE828786, R79914, BF359066, R40070, AW105212, W28668, BE828806, BE828745, BF376305, BE828783, AA468328, T31551, BE828828, BE828833, BE828822, BE770064, BE828733, BE770091, BF372547, BE770076, BE828750, BE001475, R62897, BE828752, AI198489, AA095791, R20930, BE706927, T58696, AI700843, BF372554, AJ245621, I89943, AF070636, AF109906, AL137557, U35846, AB050510, I03321, AF262032, AK000652, AL389939, AF090903, I89947, AL122049, AK026885, AL162062, AJ299431, AL117583, AK000083, D83032, AF119878, X53587, I48978, AB047904, A08913, AL137480, AK027164, AK024601, AK024538, E12747, AF130110, AL049300, A08916, AK025906, AL133014, AL133113, AF056191, AR038854, AF155221, AL133072, AL117432, A08910, I89931, A08909, AR087170, AK026504, AF113699, AL137550, X72889, AL133104, AF051325, AK026542, AF090896, AX040974, AX040958, AK027096, AF118070, I33392, AK025798, U68387, AL157431, AL157482, A08912, AF208026, AF285167, AL122110, AF100931, AK026480, AF139986, AL133080, AL133081, AF177336, AF116654, E07108, AL050116, AF138861, AL133077, AF090901, AF116602, X82434, AF119894, X62580, A08908, AK026651, AL353957, AK026651, AK026855, AL133067, AR083266, AL050024, AK026526, AK026642, AF217987, AL122098, AL133557, AF116646, AK000718, AK026464, AK026533, AK027114, AK027081, AF119875, AK025391, AK026353, AK027204, AF090900, Y14314, AF260566, U91329, AF113689, AF225424, AF119859, AL359601, E08631, AL133016, AF130082, AK026600, AB050410, AF146568, AF271350, AF130104, E07361, AL353625, AF132205, X70685, AB047941, U58996, AX020124, AF242189, AK025484, I48979, AF081195, AF130066, AF218031, AF116610, AK000137, AF130099, AF057300, AF057299, AL050277, AL122123, AR038969,

HWMCK60	808	105475	1 - 837	15 - 851	
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HAMGH34	812	105501 2	1 - 1694	15 - 1708	BE613557, BE410666, BE254541, AA788928, W73824, AI203994, AA827774, AI657035, AA398840, AI240982, AA435849, AA280540, AA588587, AI912272, W73856, AI261800, AA767870, AA476510, AI826017, AA428181, AI203623, AI188185, BG015927, BF962882, AA722432, AA875844, BF508386, AA188792, BG015917, AI567261, AW071511, AI095574, AA417328, AI660749, AA428392, AA627483, BE836581, BF056887, AW024787, AA417307, AI014719, AA557824, AA280168, AI381202, BE080381, AA932183, AW978501, BF740071, AI419293, AI924859, AA830705, F02450, AW956401, BE966456, AI678158, AI055887, N95415, AI092293, AI807035, AI989916, AI361166, BE042916, AA729234, AI140771, AW089633, BE671414, N52346, AA189174, AA249783, BE836577, C00838, BF961655, T30673, AW960715, Z42973, AI000046, BF954203, AF106682, AL353748, AF317228, U48972, Z82211, Y09858, and AL022157.
HTEHP29	813	105517 4	1 - 875	15 - 889	BG110560, AI631281, AI625779, AA195347, AA195272, AW474711, AI265934, AI138775, AW016790, BG116032, AA884056, BE378635, AW594221, AW117655, AA813932, BE501702, BF970724, AA523692, AI612804, W15522, AI269236, AI688937, BE048861, AW269485, AW269486, AW269484, AI004948, AI038706, AI889700, AI470952, AA812584, AI160543, AI285978, BF221831, AW771552, AA557400, BE502099, AW516672, N23668, AI888851, N22625, AA700480, AI204356, AI381560, AA161383, AW439318, AW299589, BG236353, AA700153, AW273361, AW303803, N59616, AW769118, AA007426, AW243227, AI302000, AI189245, AA195140, H63951, AI480339, AA404683, AA044991, AA515881, AI073466, AI825630, AW271843, AI971564, AA195346, BE090990, AI699944, AI033808, AI873005, AW263931, AA634226, AW337201, R91419, T98768, T97607, AV647493, W15411, AA579985, AW341132, AW970838, BE540541, BE169724, BE673623, BE163714, BF849453, AA732611, BF326748, AA348483, AU125299, N67124, BE178033, BE169478, D20935, AI554244, BE842937, AI824259, AA156037, AA156188, R29401, AW370209,



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HBHMF62	816	105538 1	1 - 846	15 - 860		AL537976, AW956448, H07075, AA324184, AL520712, BE741654, AL524606, BG033728, BE794207, BF348472, R87835, AA378653, BF313918, AL537255, BE267461, BE267321, BF912788, W27716, AA136431, AU119617, AL133100, AK000538, and AK001070.
HTPHO72	817	105542 6	1 - 1804	15 - 1818		AL515354, AL535230, AI344225, AL515353, AL536975, AL535399, AL533863, AI654097, AI935237, AU142576, AI016651, BE910134, BE872446, BG260941, AU143745, AL535398, BE439406, BG115401, BG034018, BG027510, BE782872, BF695570, BG260932, AI762092, W51807, BE146116, BF694327, BG253458, BE779739, AW939344, AU129145, BF698576, BF700754, BF573679, BF129881, AI970194, BF665235, AW611571, BF591202, BE706104, BE567334, BF433874, BE146266, BE146334, AL040782, BF571654, BE961109, BF213184, AV711990, BF666541, AI434757, AI809575, AU151324, BF436559, BF941072, BF666197, BF572918, AI380628, BE877752, AI765338, AW780337, BE866436, AI860828, N35551, AI312100, AI888850, AU160791, N38846, AU159863, AW131269, BG029915, AL120373, BE047581, AI184923, AA176692, AI683921, AA174146, AA412655, BE501002, AW898306, AI347273, AI276633, AW102943, N26499, AI422695, BF130425, AA588551, BE503660, BE208291, AA226075, AI827056, BF875808, AA130382, AW439736, AW264891, AI365107, AI992306, AI148231, AA984929, AI148984, AW150079, AI832181, BF209487, AA854340, AI038905, AI269468, AI769880, D44928, AI863221, BF941118, BF132158, BF955433, AI125729, N39373, AA598676, BF208879, W74515, W74727, AW168399, BF038829, AA835921, AA471029, AA412541, AA121750, AA225920, H45060, N38937, BE146178, AV714470, R59338, AA984875, BE090546, AI587527, BE156359, R66182, AA877664, C03753, AA503281, BG009124, AW768657, AW975255, AI270523, N71517, AI583706, AI475197, AA121696, H03152, N90562, AA664776, H40657, AA171666, H87950, BE221773, AW841003, H22889, AW069437, D29581, AA345955, H03959, T07680, T29262, H27853, N29944, AA334350, H13366, AA298274, AI865965, AW951202, T30144, C02396, BF336094, BE928330, AA328738, AI863521, AI375079, BF688070, AI572168, BE697724, R79702, AA169304, AA709200, R72957, AA420636, AI933880, F09514, H06035, AA169629, BE697960, R67062, AW190063, N22142, N71849, R59337, AA335367, AW379738, H88342, N79599, AA318557, N46507, AA435823, BF093500, AA397882, AI049760, AA810637, AI857295, AW150981, BE176219, AW150797, W31502, BE697727, BE901570, BE176161, Z39877, F10482, R63552, AI003042, AA171671, BF810987, AI905110, AW168890, AI123901, W19066, BE816131, W20205, AW893945, AW893929, BF965877, T25159, BF438299, BE730723, D81615, AI634225, BF972281, BE280037, H45029, BE697716, AA664611, AA213866, AI247193, AI590830, AI633419, AI681985, BG256090, AI288285, AI554821, AW983754, BF792961, BF925729, X78669, AR048126, AR087768, U15734,

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HOPKL18	818	105543 9			

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HTXRR82	821	105548 0	1 - 1663	15 - 1677	AL523841, AL528084, AL523788, AL530647, AL528085, AL530205, AL525887, AL523789, AL530206, AL530648, AL530020, AI741904, BG111251, BE783284, BE304619, AW246206, BE409176, BE797194, AW249939, BE896428, AA631248, BF837752, AI262225, AI076571, AI379987, BF760075, BE791843, AA747742, AW182741, AI039409, BE791484, BE898142, BE171695, BG008706, AI266555, AI470348, BF351795, R08484, AA316496, BE246277, BE243727, AA628030, AA034425, BF842855, BE243741, AA053916, BE273715, and AK026518.
HAIBU62	822	105558 2	1 - 2394	15 - 2408	AW960778, BF670863, AI891069, AI760315, AI658836, AI802396, AU145031, AU147448, AA857432, AI564713, AA191075, BE180121, AW007299, AI082050, AA923198, AA581379, AA228040, AI383961, R45310, AI828459, AA228150, AI655170, AA227869, AA292098, AU121676, H29021, BF733569, AU118481, AA191665, BE706359, H13408, AA291928, AA954433, H29122, AA345806, R20228, AA337411, BE465193, BE561996, R43321, Z41361, AA748172, AI915244, AA730958, AW381210, BF508602, AI017072, AA227488, AI784588, AI913410, AA960809, H06070, AV745980, W20232, BF671807, AA634199, AA362928, AF148848, AF076249, AK021646, AF155508, and AL133070.
HDTAY29	823	105563 2	1 - 1296	15 - 1310	AI655115, AW969080, AW340416, AI088414, BG168598, AU133786, AI766935, AW955824, AA432162, AI243534, AI355372, BF813174, AW340370, AA001958, AA127678, AA001942, AA121541, BE089820, BE089818, AA149985, AW996875, BF514913, AI806604, AL048412, BF663006, AA431143, BG167354, AI784544, BE005808, BE178989, AI219527, BE178950, BE005809, AA136529, BE172359, BF799552, BE178947, BE005724, AU144539, BE178953, AA026727, N39996, BF665736, BF184492, AI982645, BF246646, BE005719, BE005823, AI806323, BE005602, BE005615, BE005617, AA026615, BE089808, BE005616, AA992408, AW593294, AA993913, AW629540, BG036581, BF665789, AA043644, AA504274, AI863566, AA916510, AA904815, BF438331, BE765047, AI968518, AW629858, AA831295, AA152142, Z28590, AW378121, BF915893, Z19353, AW607533, AW999039, N27265,

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HCOQD79	824	105576 7	1 - 1192	15 - 1206		AL521552, AL521553, BE799414, BE796064, BF569290, BF057457, BE259781, BG031400, BG029406, AW246213, BE272289, AI91822, BG031562, BE794799, BE740782, AW005567, BE266149, BF568283, AI760253, AA52351, BE744461, BF316077, BE745416, BF796423, BE906148, BF569309, BE731561, AU144985, AW246651, BE728637, AW150853, AI144315, BE747742, BE745668, BE208604, AU118415, AA917665, BG028996, BF342097, AA847227, AI811247, BE047940, BF001891, AI056428, AW276233, BF568258, BG167035, BE742415, AA445958, BE393329, BF972798, AW027429, AI863189, BE892428, AI198367, AI480232, AI041893, AW083270, AA488920, BG176928, BE273932, AA430213, BG179522, BG104852, AI342849, AA568169, BF314050, BE264597, AA516013, BE741159, BE514797, AA946875, BE263994, AI032102, AU156180, AA662705, AA427415, F28974, AA604545, AA113999, BF939307, AW962896, AI971135, BF971760, W92520, BE514803, AW050759, AI749378, AA676954, AI113998, T80366, AW078903, AW075249, R73441, AA903416, HI7946, AA48849, AI866021, R51976, F19320, AA300068, R73442, BE743046, AA703568, AA371201, BF439443, BE645932, AW406525, AI186416, BE267243, AA411354, BE728187, N99524, AA427414, BG032561, AA687478, N71680, BE512695, AW246412, AI198472, AA349876, BE85663, AA411732, AW793163, AA527471, R53313, AA913234, N99453, AW087551, AA494167, AA468418, AA825644, AI345370, AK001023, AL031724, AF118394, AF114169, AF220294, Z36821, AL031718, AJ012582, U68233, I92592, A27631, and AF035305.
HAMHN12	825	105589 9	1 - 1785	15 - 1799		BF526465, AW026325, BE542706, BE542707, BE855427, BF196774, AA864639, AI287672, AI885416, AI424243, BE855854, AW577426, BE858918, AI276664, AI342436, AI420272, AI298488, AW602166, AI732365, W79647, BF589550, BF437295, AA889422, BE677567, AI420762, AA228426, AI686213, AA224927, AW339154, AI146289, H93603, AA574391, AA228353, H05698, AA694242, AA224998, AW629590, AI000160, H93602, AW613178, AA631694, N90717, AA256985, W74079, AA256986, H27807, AA639700, AA781512, AI247191, BE856659, AA256485, AA333630, AI468186, R83652, H44430, C01115, AI380982, R83651, AI350743, AW577102, AA256868, BE817585, AI674835, BF330948, BF330943, AJ400877, AJ400878, and AF086390.
HODIY67	826	105600 0	1 - 4308	15 - 4322		AL524194, AU133020, AU118936, AL524193, AU119223, AU122342, AU121697, AI961260, AU133891, AU139520, AV710009, AV728811, AI335254, AW163596, AU127807, BG164222, BE886798, BG028956, AI798785, AI650480, BE932104, AA311103, BE541225, AV694234, BE780965, BE220832, AI040228, BF197063, BF434796, AW162882, W05746, AI267777, AW965426, AW386260, BF509507, AI768758, BF110042, AA746489, BE645065,



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HNTRS57	827	105609 7	1 - 1585	15 - 1599	AL537894, BG258704, BE047764, BE868736, BF340077, AI801416, AI762850, BF434262, AI742931, BF439373, BE644804, AI138559, AI797233, AW188187, AI380612, AI522102, AA868281, AL043757, AA426266, AW473173, BE645012, AI016269, BE207382, AI950202, AA910365, BF115501, AW051847, AA453144, AI263901, BF590758, AA425975, AW662298, BE281125, AW673734, BF512736, AW025120, BE645067, AI866541, AW299359, AA410629, AW263141, AI801012, AI472095, AI127189, AI088811, AW571861, AA836887, AW516893, AA502586, BF439167, AA676768, N92308, AI038102, AI632072, AA875868, AW516321, AA902731, AI274022, BE138815, BF125686, AA863351, AI721215, AI963518, AI468226, AA235644, AW969404, AA161034, F27866, AI910725, AW000879, AA741323, AI289063, AI354994, AI139962, AW104375, AW194619, AW614642, AI537733, AW169223, AI990330, BF437477, AA554004, AA973055, AI673688, AA291376, AA460182, AA410817, T73725, AI940057, AA403305, BF745263, AI940055, AI940052, T73700, AI142749, AW614314, AI918714, AI364787, AI985850, AW340231, AW080372, AI749845, AV747392, AI686667, AI814114, BF746001, AA902525, W24702, AL048891, AA758059, F37331, BF745253, and AW372234.
HUKFL74	828	105610 2	1 - 2429	15 - 2443	BE796779, BF314720, BE296316, BE311402, BF206459, BF13266, AW245438, AL134658, BE728308, AI991631, BE294807, AI991255, BG111031, AW001543, AW245796, AI830089,

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HTEBF05	829	105610 4	1 - 767	15 - 781	<p>AW340840, AW519058, AW161869, AI887324, AI885451, AI040985, AA405326, AA159189, AI612812, AA657959, AA298813, AV702726, AW963931, AV705545, AV661866, AV726708, AV705217, C15737, AW963940, AW954129, AW954735, AI557264, AV702189, AV696302, AV726916, AV702878, AV706278, AV725294, AW961666, AW951516, AW954772, AW963397, AW963117, AV703593, AV702148, U53476, D83175, AX027923, M89801, M89802, and A84916.</p>
HOPKD19	830	105627 5	1 - 1454	15 - 1468	<p>AL514608, AL528469, AL528936, BE746015, AL521772, BF690094, BE790826, BE790935, AL518173, AL515593, AL518172, BE742331, AI191053, BE729223, BF530756, BF312746, BE792243, BE901574, AL515819, BF664201, BE795515, BE900232, BE887232, BF303634, BE535191, BE729997, BG177383, BG248306, AL529609, BE544736, BG106483, AA826340, BF982191, BG253167, AL515592, BF982788, BF525820, BG108991, BE728913, BF974236, BF528108, BG031382, BG031585, BE777805, BG119661, BG121579, BE264024, BG167191, BE791853, BE378819, BF797508, BE549254, BF980530, BF797481, BE778043, BG028063, BE745313, BE563774, BE782976, BF794209, AI625492, BE909865, BF345302, BE543174, BG250283, BG250199, BE544765, BE379191, BE543875, AI434163, BE778018, AI188794, BF309788, BE545242, BG117942, BG110383, BE251838, BE898982, BF308052, BE409243, AI986077, BE545315, BE389907, BG117495, AW001257, AI499406, BE275460, AL514607, BF314282, BE276384, BE383327, BG259890, BE389361, AI608736, BG115641, BF237552, BE536648, BF315248, BE548410, BE277397, BE389020, BE304445, BE255993, BE734099, BG112690, AW172971, BE544670, AI609082, BE900812, BE784989, BG027636, BE744256, AI624012, BF128698, BE257241, BF316397, BG258382, AW575251, BF307121, AI735180, BE535951, AW575944, BE382554, AW572325, BF439251, BF337954, AL515818, BG025498, BF526215, AW951827, AI818207, BE388264, AV702179, BE389281, BE222313, BE276340,</p>

BE868749, BE260877, AA058567, AI630780, BF027042, AA220930, BF026093, BG105435, BG118076, BF308902, AW248669, AW402578, AI858346, AW664452, BF061147, BG110189, BE390401, AW512926, AI679120, BE384029, AV722231, AI862795, AI091067, AA012914, BF436346, BG116433, BE900877, BE312458, BE220443, AW961579, BE670096, BE408011, BE27252, AV707380, AA706270, AI208875, BF816691, AI692667, BF203485, BE396619, AA432054, BG113670, AA236745, BF026205, AA907876, AI225234, AA594683, BF342144, AW583043, BE300663, AA663474, AA012961, AI920914, BE278436, BE397041, BE881940, BF514093, AA417778, AW614725, AA464567, AW513557, AI313144, AW955917, AI971873, AA836823, AI094752, AA937093, AW513570, AW905883, BE703016, AW248778, AI141945, BE274483, C06117, AA813275, BE779310, BE501615, BF303734, BE266794, BG028093, AA421870, AW780419, AA633104, AW630733, BE385547, BE260115, AA056106, BE221628, AI476621, BE005895, AA227431, AW073411, AW798055, AI445230, BE163617, AA315791, AA314106, AA181966, AI400186, AA745292, AV715047, AW247796, AI701869, AA976316, AI827119, AW149356, AI457298, AI094770, AA253490, AW249102, AI679695, BF689867, AA954147, AA857953, AF126021, AF150962, AF178980, U72511, X78683, U47924, AC006512, AC002397, U72512, U75391, U89422, AR043313, AX042263, T60495, T61338, T77747, R07715, R07716, R08337, R08389, T81814, T82157, T96451, T96628, T96739, T98357, T99776, T99874, R31594, R50011, R50347, R63082, R63126, H30136, H40710, H42816, H43014, H38648, H43728, H45225, R91308, R91360, H54002, H59082, H60354, H61298, H61300, H62413, H64083, H65345, H65549, H74322, H80059, H80770, H83835, H83836, H84006, H84007, H85326, H85567, H86450, H98247, N23209, N27152, N28790, N33424, N39301, N40090, N42398, N57688, N59659, N63921, N79023, W02830, W30906, W33062, W35412, W46295, W48826, W51972, W69172, W69259, N90332, N90731, AA015800, AA015801, AA015787, AA015786, AA016168, AA016169, AA017145, AA018326, AA019844, AA019848, AA021313, AA021423, AA046910, AA069197, AA084771, AA101364, AA101365, AA115801, AA115802, AA128956, AA131969, AA132137, AA148917, AA148918, AA181744, AA182526, AA186966, AA190502, AA190988, AA196982, AA196983, AA223547, AA223424, AA223536, AA223604, AA223764, AA226821, AA227166, AA227430, AA233064, AA243656, AA253367, AA255780, AA256310, AA256416, AA421869, AA468478, AA493726, AA558604, AA563820, AA580870, AA581046, AA640590, AA729987, AA738128, AA740467, AA741372, AA834510, AA887774, AA918936, AA977947, AA983363, AA988439, AA991187, AA975589, N98448, N86129, C05702, C18129, AA205462, AA654260, AA291645, AA486476, AA663396, F22281, F22555, AA716488, AA716715, AA758079, AA778996, Z17872, AA985050, AI022517, AI026158, AI079442, AI093575, T10908, Z24778, D19668, Z39222, D31029, F00850, AI146753, AI269846, AI311079, AI367181, AI445304, AI445027, AI445028, AI468920, AI568667, AI581041, AI167672, AI193476, AI214121.
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HLICR58	831	105629 0	1 - 1586	15 - 1600	<p>AI276692, AI279505, AI279509, AI591123, AI350685, AI611229, AI696324, AI818153, AI863448, AI870631, AI913875, AW007818, AW009666, AI992109, AW150116, AW196102, AW262544, AW302476, AW511649, AW591854, AW613471, AW615329, and AW627394.</p> <p>AI174900, AV649110, AA779097, AI023384, AA700364, AI052207, AV681541, AI183788, T60326, AI040537, Z20967, T60354, AW341516, AW513549, AL531814, R60754, BE079865, N90892, BE141316, AI124860, AA625858, AW844137, AI253241, AI253247, AI793247, AF181467, U55765, AC009228, AC009949, AI022393, AL360089, AL158159, AL031313, AC005034, AC022360, AL138958, AC006398, AC000386, Z69714, AC009482, AL118525, AC006460, AL445188, AC025472, AL139150, AL049796, AL031726, AJ400877, AL354933, AL022069, AL049797, AL445437, AL356752, and L78833.</p>
HISBE12	832	105637 6	1 - 2587	15 - 2601	<p>AUI33566, AUI34630, AUI37852, BF672805, AUI38245, AW953092, BF574374, BE069938, AA418061, BF126477, AV704855, AV733475, AA490669, AI126748, AW021070, BF107314, AW169111, AA044844, BF432458, AW963336, AA917826, AI859443, AA402341, AA134033, AA772171, AW261848, AI979109, AA411838, AA827550, AA993572, AA490670, AI689396, AI564514, AI589042, AI962882, AI951442, AI457657, AI274779, AI126270, AI859726, AA846743, AW139081, AU155829, AI887980, AI560718, AI131563, AI160023, AW139075, AI244973, AI288216, AW167802, AA449011, AI092410, N71091, W23461, AA001805, AA024894, AA771989, AI332470, AI362305, AW022540, AW129473, AI357333, AI524525, N40765, BF106969, AI276660, W72460, AA099736, N70641, AA417957, AU157537, AA563938, AI355584, AA860530, AI734946, AI344521, AI185811, AA954648, AU155547, AW166786, AI028138, AI276661, AW771189, AU157338, AW419084, AA452645, AW168035, N90530, AI801066, AA983225, AI041476, AI424177, AW152395, AW189459, AI344395, AI015682, AI127313, W76518, AW014696, W05460, AI266450, AI689224, AW515862, AI016555, AI298435, AW024736, AI569566, AI095864, AI475928, AA614454, AI539532, AI630231, AA056733, AW591105, AI874113, AA133968, AA934658, AW474609, D82422, AI031797, AW513075, AW129011, AA099737, N40768, AI579994, AW150847, AA058387, N22767, AI690491, AA226177, AA226521, AI299561, AW518280, AA781624, AI138761, AI680522, AW088795, AW194041, AI318244, AI973210, AA027095, T57193, W44853, AA693819, AA860686, N30057, AA825328, AI889552, AI913873, AW050479, AA005320, AA737576, AA010720, AW572031, AV740811, AA843163, AA782544, AI026970, AA772466, AA450017, N71006, AW590986, W32273, AW152339, AI804555, BE169187, AA001714, W32000, AA993329, AA347504, AI263677, AW591684, R91853, AI824356, AI470261, BF431703, AA386154, AA772584, AA632359, AA863458, AA860713, BF574018, AA004243, N94949, AW132079, W32023, AW513318, AI191171, T57088, AW151046, AI289935, AI678407, AI800349, T55946, W05488, R92692, AV744992, C75173, AW512959, BF358693, BE939009, HI3885, D62503, N30060, AI623948, H22323, AW473204, AI344807, AI564394, BF889143, AA450366, T97372, AV741769,</p>

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HAAJAH48	833	105640 0	1 - 934	15 - 948	<p>AW813259, AW813211, BF375077, AI910050, AW966053, AW966534, AW978634, AW966531, AW949633, AV699927, AW975618, D51423, AV720203, D58283, D80391, AV718440, AV720028, AV718770, D80166, D80038, D80196, D80195, AW975621, D80253, D59619, D80210, D51799, AW960553, D80240, D59859, D59927, AV719822, AW966054, AV718489, AV718692, AV719188, AW973307, D80227, AW966062, AV719324, AV719783, AV699447, AW959628, AW959570, AV718800, AV720211, AV718844, AV720464, AV719557, AV720731, AW959582, AW965177, AV722801, AV723927, AV724520, D80212, AV699550, AW949656, AW949642, AW966013, AW966041, D80188, D59889, D80219, D81030, D80269, AW949641, AW949645, AW949657, D80043, AW959597, AW949618, D80193, AW964488, AW959202, AW978661, AW965158, AV719468, AW949655, AW949629, AW966050, AW949632, AW949654, AW949631, AW949643, D80366, AV723097, D50979, D80022, AV720812, AV721386, AW966043, C14429, D59275, AW949646, AW973447, D80164, AW949653, AW949658, AV700889, AV720791, AW960465, D57483, D59787, D50995, D80045, D80378, D59502, AV718633, AW975605, D80024, T03269, AW959799, D59610, AW965197, C75259, AV720654, AW973485, AV718931, AW964737, AV742001, AV742667, AW965185, AW966022, AV701125, AV701335, AV701166, AV701043, AV701332, AV701017, AV701248, AV742048, AV701431, AV700229, AV699669, AW959469, AW978648, D80241, C14014, AW965176, AW973541, AV719628, AW973334, AV681510, F13647, AV681491, AV699682, AV719049, AV701419, AV742430, AV701154, AV718707, AW964756, AW966065, D59467, AV645389, AV718938, AV645344, AW964477, AW956434, AV699746, C14389, AW966029, D80134, C15076, AV701443, AW752082, AW965163, AV645343, AW958992, AW958993, AV699479, AW959136, AW959062, D51250, AV701130, AV701149, C14331, AV701422, AW962245, AV719913, AW966075, AV719000, D80268, AA305409, AW973474, AV744770, AV681529, AW960473, AV718550, AW966560, AW956397, AV718674, AW965184, AV720220,</p>

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HEEBK29	835	105645 4	1 - 4861	15 - 4875	BE745399, AL522262, BE908201, BE906253, AU125614, AW089583, BE621787, AW243446, AV690793, AW192502, A1858615, A1890773, A1970297, AW080065, BE621228, BF475568, A1814791, BE621889, AW960683, AW439633, AU127824, BE046311, A1963657, BF114979, AW090100, AW513648, A1262027, AV696242, AW341634, BE973619, A1963327, A1433025, AW302356, BE620975, AU149236, AW070352, A1806420, AV727879, A1891026, W67512, AA548361, A1185836, BF880354, AW771451, A1815002, AV727686, AW007829, BE677332, A1123019, AA909672, AW514323, AW172713, AW604822, AA565581, A1741211, AW264387, AW380912, AA156812, A1951055, A1884448, AW243679, A1138743, A1922781, AA676839, BE389394, AA317453, BE075417, A1744347, AA063600, BF941222, A1278214, AA780893, BE392908, A1138737, A1372874, AA826478, BF476022, AW088824, AA428436, A1433274, AW074533, H66739, A1348515, BF594677, BE908514, A1087015, AA493387, A1302133, AA742411, A1610422, AV698069, AW303594, AA036681, A1679072, A1985287, A1676253, AA156716, AA983385, AA099281, A1382076, A1204685, AW517675, A1299065, AW515199, W68125, AA443895, N65966, A1628488, A1138741, A1445997, H66738, AW193226, A1499793, A1129495, H43558, AA429214, H42969, AW192218, AV689623, AV691878, A1589031, AV660284, A1888422, A1873783, AA746039, A1985285, A1434459, N95436, AV688537, AA738493, H92124, AW268393, W03866, AA913077, A1537365, A1273983, A1249320, BF312684, H42899, BE466338, A1809446, AA099280, W01930, A1633945, AW771119, N55529, A1129773, W24048, W73426, A1288122, BE906823, W73381, AA826526, AA969783, R94455, A1129884, T03693, A1245885, AA961183, A1866118, N46259, N73753, AA910025, H43559, N81029, AA846611, A1217549, AW515007, AL047369, A1382852, R66548, A1610829, AA927406, F12821, A1625372, AW339822, AA449955, H27222, AA193615, AA888180, H08667, A1372912, A1928559, A1915591, T57021, BF943560, A1634405, AA009986, A1223972, AW513899, T72813, N80311, A1241051, BF061815, AW075328, AV685591, R66549, AW136127, BE166191, AV693190, BF530633, H47698, AA295509, R94163, N94227, AA444089, AV697388, AA380196, BF436805, AA478750, AA582325, AL040492, N71032, BF057259, AW137045, BE965435, A1872536, H08668, H28576, W81416, BF568352, AA699883, F02853, A1926224, A1964083,



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HCHMM19	836	105661 7	1 - 1725	15 - 1739	AL534327, AI096506, BE378797, BE392697, BE388530, BE563058, AW965878, BE392233, BE392568, BE562786, BE816336, AW602150, BE816332, BF724233, BG012790, AW950293, AW088625, AI623455, BE259257, BE816333, BE712877, BE712851, BE712863, BE712874, BE712876, AW445054, BE392522, BF339456, BE869413, BF333807, BE730799, BE712859, AI378021, BE712921, BE712852, BE712926, BE712924, BE562748, AW089470, BE712978, BE712856, BE712865, BE712923, BE712992, BE712869, BE712985, R54862, BE712979, BE712983, BE713014, BF877112, AI334787, BE712858, BE712997, AW089731, BE712969, AW148926, BE712993, AI565144, AW102888, BE712896, BE713017, BF829674, AA477654, AA410250, R53118, BE764760, BE392951, AW058228, R52267, BE712973, AI688979, AI744763, N59116, AI061201, R73552, AA410601, AW072414, R54001, H24954, AW243859, AA479843, T53386, BE693883, BF792651, BE712906, AA402649, AI653791, AI499132, AI886419, AA359265, BE712928, BE712931, R48059, BE712934, BE712927, AI887407, AI830659, BE712940, BE713027, BG010635, BE712909, BE764724, R48045, BE712950, BG164045, AA402646, BE712952, AW770834, BE713018, BE713010, BE713009, BE713013, AA411137, BE712949, AI653885, BE712913, BF873070, BE713011, AA358698, AI873571, AA633384, R52266, AI174895, BE713028, AA322308, BE713024, BE713016, BF761627, BF873089, BE713022, BE713026, AA291585, BE712958, AI804837, AI432124, AA394269, BF876486, AL534328, BE713030, AI524776, AA358907, BF876484, BF829815, AA293640, AA430383, R47936, AW193891, AA410602, AW473257, AA411455, AA427751, T53385, AI537722, AA236709, AW028475, BF875028, AA477340, AA427752, AI288000, R06662, AA411583, AA406031, AI860014, AA479650, BE139492, BF333825, AA479720, R35771, AW130914, AA430736, AI684263, AA479554, BF931748, AA428857, R63600, AI870177, AW103389, AW194324, BE712932, C05050, AI538811, AI887289, AA481946, AW150649, BF749660, AI914715, Z19749, AA476975, BE869834, R54871, AI918638, AI684209, BE613048, AA757345, AI525964, AW150617, AA430560, AA402931, AW338545, AI283299, BF740522, AA426533, AA290786, AW438957, AW793096, AA292401, AW439076, BE076592, AA367777, BF036210, AW793132, T47453, AI538248, AI524589, R72922, AI689706, AW450212, AI241778, AW302585, AI683101, AW275299, AA284900, AA989478, BF745978, AW381828, AI873903, R47950, AI918551, AI873999, AA890124, BF445784, AI591415, AI364586, AW593602, AA428332, AA433977, AW089004, AI524580, BE699717,

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HE8NG02	837	105662 5	1 - 1215	15 - 1229	AI123839, BF439260, T12179, BF679243, A1039039, AI146280, AA236166, AW962409, AA297231, AI147044, AA453695, T12180, AF191770, AF191769, AF191768, and AL035608.
HWHKD22	838	105665 4	1 - 1310	15 - 1324	AI829903, AI986119, AI633646, A1769747, AI984540, BG055419, AW518841, AW337994, BG259048, A1769807, AW518894, AI610118, AW566008, BE674641, AI354761, AI696473, AUI50348, AI371756, AW014492, AI815233, AA205305, AA42702, AA811626, AA418029, AV747886, BF884881, BF969470, AV747168, AA808125, AW589703, AI680927, AI632886, AA418089, N70046, AI825035, AW302373, N25678, H39858, AI298620, AI915190, AW770054, R86213, BG149822, N64316, AA810844, AA846497, H28050, AI916429, AI299340, AA633452, BG054552, AW518887, BF447929, AA496038, AL536729, BF446446, AW771301, BF857012, N55216, BF857010, and AK022876.
HOCPI87	839	105666 6	1 - 1484	15 - 1498	AL518904, AL518905, BE616371, AI828880, BE615355, BE531320, AL513808, BE616160, BE531166, AL530739, AI436189, AI829057, AU119325, BG252803, BF002498, AI192809, AA836407, AU116821, AW006012, BE543906, AA477822, AW170329, AA580307, W74534, AL041460, AI333563, AI589612, AA569804, BE857996, BE780663, AI126528, AI718912, AA428893, AA507376, AA424547, AA769260, AI291503, AW974150, AA410533, BE925853, AA478220, AA022829, W79545, H28373, W84807, AI149621, AA284250, AA410308, BF845479, AA424635, AV749126, AA838115, AI126137, W79363, AW801410, AI221412, AA934373, W01406, AI923931, AA729488, AW613142, BG167622, AW518106, AI357146, W84808, BF737247, AA253039, N70789, H25595, AW801537, N68230, AA022828, BE812559, AW801332, AA352675, AW176646, AW401979, AI749443, AA292613, AI985391, N36778, H28398, T29515, F08556, N45939, N77827, AA193262, H25550, AW751653, AA937981, N28457, AW081522, BE000431, AA814116, BF748285, BF760942, BE183148, AI188907, BF056502, T25961, AW366647, AI340862, AV686817, AV689385, BF986723, N87297, M25393, S52655, M80739, M81477, X58828, and M81478.
HAAA59	840	105667 1	1 - 6052	15 - 6066	BE890597, BG109730, BE733024, AU140104, BE889571, BE546473, BE889587, BE730721, AU138672, BG259764, AI718282, AI709383, BG163913, BE779177, BE734224, BG031798, AV707879, BE408475, AW368622, AW272235, BE900705, AV721483, AW470101, AW471310, BE891068, BF435568, BE386130, BE901385, BF980199, AW392816, BE894916, BE220160, BE903247, AW392815, AW076072, AW392813, BE734460, AI671707, AI628226, AW572916, BE540311, BG122367, BE273197, AW499944, AW769234, BG235985, BE549113, AW470123, AL138202, AW629754, AI887486, AI984572, AW996987, BE296360, AL353974, AA732450, BF895267, AI859535, AW080807, AI523527, AI752689, AI693382, BE892451, AI984050, AW131290, BE048752, AI922765, AA777248, AI832002, BF185637, BE048701, AI346505, AA922780, AA521201, AI954924, BF844854, AU157701, AA557382, AI888131, AW269811, AI608617, W72219, BF698993, AI681187, BE559573, AA932106,

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HUSGX12	842	105673 6	1 - 2100	15 - 2114		BF115810, AI762621, AI742202, AV697686, AA446863, AW028794, BF590994, AI394107, BF591454, BF513446, AI221779, AW052092, BF063224, AA535268, AI183672, BF514504, AI917745, AW296681, AW297154, AI802689, AA778418, AI122998, AW471212, AV685546, AA902908, AI193482, AI610870, BF054957, AV690497, N81132, AA476226, AV689052, AA677378, AA476227, W07484, BF478080, C16879, BE834460, AA446978, H77651, N75843, AW296006, BE834454, BE834440, BF002658, AA621641, BF513325, D12199, W19304, W07640, AI354319, AI475969, AA906878, H77652, AI134524, AI045327, AI134110, AL045328, W07635, AW968212, AW969911, AW970050, AW969988, AW970070, AW969748, AL047163, AW601637, AL042898, AW972357, AW972220, AW974660, AW970025, AW970101, AW971738, AW858522, AW968204, AW970053, AW970079, AW968336, AW968207, AW969778, AW970084, AW972594, AW976022, AW973652, AW970094, AW975147, AW971172, AW970108, AW975628, AW975391, AW970107, AW970540, AW972724, AW979227, AW979127, AW975158, AW971301, AW975685, AW968181, AW974098, AW975434, AW974378, AW971725, AW968215, AW968200, AW972273, AW975061, AW971207, AW975031, AW975383, AW972279, AW969996, AW969634, AW971126, AW971114, AW971038, AW968196, AW968347, AW972845, AW979037, AW978995, AW969784, AW971042, AW971290, AW979105, AW972686, AW979136, AW979238, AW974805, AW975443, AW968340, AW973774, AW968168, AW969653, AW971184, AW972897, AW974871, AW970076, AW577201, AW969624, AW969823, AW969734, AW969864, AW969664, AW970020, AW969862, AW969809, AW976024, AW969826, AW974390, AW970105, AW861914, AW969798, AW969648, AW969876, AW969848, AW969888, AW969934, AW972665, AW969936, AW969961, AW979161, AW970093, AW971940, AL037295, AW969916, AW970014, AW969621, AW979138, AW972212, AW969926, AW969958, AW969631, AW969651, AW970095, AW970118, AW972229, AL038838, AW970074, AW970032, AW972218, AW971299, AW970069, AW970096, AW968190, AW970023, AW974346, AW969691, AW976040, AW969698, AW970531, AW969632, AW970122, AW970115, AW971737, AW968338, AW972380, AW972372, AW969697, AW970886, AW970003, AW972362, AW972835, AW970075, AW969625, AW969677, AW969626, AW970859, AW968147, AW970036, AW970054, AW969642, AL037343, AW968148, AW972228, AW968150, AW971187, AW970619, AW972849, AW974096, AW972717, AW975019, AW971726, AW972642, AW972926, AW969628, AL038651, AW979077, AW979080, X95701, AR088747, D87811, S82462, I.22760, AF179425, UI1889, U51335, AB034243, AB034207, AR066494,

HPDRG02	843	105676 4	1 - 2158	15 - 2172	<p>             AJ238010, AJ276253, AJ276255, AJ276256, AR096345, AR064707, D17247, A93923, AJ276254, A93931, AJ276257, A93916, A85203, AJ276251, AL133053, AL122101, AL133082, AL133074, AL133049, AR023813, and AL133019.              BE740652, AI8233584, BG171310, BE878882, AW411439, BG166780, BE906086, AI738670, AI815554, AW411440, AI056402, BE262512, BE877434, BE537553, BE789460, BE867534, AI658796, BF035412, BE875754, AI634741, BE617343, AW393490, BE876210, BE871919, BF340756, BG024047, AW820946, AW373531, AW820897, BE048051, BE879337, BE048598, AI819079, AW571769, AW364602, AW580228, AI968762, AW245315, BF590952, AI674100, BE071871, AW580233, BE876307, AI869292, AW384848, BE620263, AW152279, AI262789, AW820801, AW608412, AW731673, AL529564, AW574850, BE271554, AA209480, AI755183, AI589643, AI656369, BF338937, BF475268, BE934850, AW401380, AV700085, AW236549, BG231513, AI687271, AU160081, AA847360, AI418295, AI985588, AW119103, AI217351, BE909190, AW016080, AW608420, AW131023, AA630269, BE464492, AI149427, N78179, AI459620, BF593096, BE879192, AI554812, AI640839, AI289506, AI268192, BE313248, AW513453, AA931552, AW058369, AA813634, AI347031, AI804259, AW090211, AI023516, AW069813, AI752976, AW820999, BG116353, AI088760, BE502154, AW402830, AA768964, AW002017, AI075703, AW673691, BF912726, AW613623, AA501894, BF056551, AI869699, AW117841, AI879509, AI587532, AW088852, AA419154, AI860748, AW590575, AW820882, N23571, AI083954, AA551989, N36125, AW118704, AI582641, AA430497, AI014467, AA159184, AI969972, AI263126, AW276084, AA707165, AI469114, N22868, AI816495, AA858117, AI857776, AI018617, AI086473, BF993501, AW975321, AA430615, AW771778, AW860492, BE940584, BF912687, AW821020, AI499659, AA577158, AA134113, BE146324, AA226941, N26266, R52309, AA035350, AW022630, AI628121, AA411681, AA974019, AW664863, AW072821, AI992296, BF813511, BF594364, AI880357, AA846048, BE933452, AI564340, BG168373, BE873734, AW072810, BF806150, AW276091, BF951215, BE873926, AA503631, AI695958, AA135227, BE878360, AA159279, AI357749, AI688770, BE076556, AW997254, AV749793, AA113061, BE784393, AI559423, AA884640, AI332794, BE935220, H79618, BF949317, BF949336, AW406267, AI984860, AA337025, AW378543, AA302570, N59626, BF087435, AW025306, AW821028, AV683126, AV688200, AV691923, AI203166, AI632661, N93344, AI424079, AV696315, AA330793, BF756713, AA079425, AA280167, BF816528, N33283, AI066652, AA603468, H56757, AV684426, T90349, AA227048, BE463449, AV697361, AW378523, BF886853, AW449882, W78180, AI203210, AW663171, AI886503, R37349, AA336361, AV697357, BE149771, F12979, AW378539, BG164953, AA291431, AW820943, AA515270, AA636029, BE900663, AA227036, H98849, AA113144, AA216614, AI270424, J05016, J05186, M86870, Y00884, T93550, T73558, T88819, T83030, T84206, R12463, R15281, R38684, R54472, H56677, H61562, H79619, H85766, N33287, N44131, N73592,           </p>
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HKZBB48	844	105676 7	1 - 3089	15 - 3103	<p>N94461, W25325, W70278, W93252, AA035349, AA079424, AA129448, AA133847, AA135089, AA419117, AA503822, AA622428, AA635496, AA687839, AA687955, AA761007, C01152, AA090347, AA077096, AA078167, AA06521, AA879418, AI001907, AI090961, D20282, D25893, T16423, F10575, AI073472, AI695295, AI865057, AI872572, AI872570, AI805076, AI932416, AW016131, AW197513, and AW273583.</p> <p>AL527534, AL528100, AL528099, AU141374, AL527533, AA627060, AW583882, BG031934, BE893127, BG117798, AV646601, BE883230, AU139703, BF971077, BG104739, AV708971, AV717404, BG104799, BE391166, BG104920, BE888433, BE082207, BF672673, AW575502, BE618015, AV696422, AU127682, BF240237, BF540950, BG118118, AW610245, BE251862, BE736295, AV705651, BE258330, BE222306, AW369549, BE255626, AI765556, BE908816, AV693119, AA161107, AI086080, AI285880, AV694192, BF029982, AI819359, AW088298, AW960725, BF207747, BF185163, AA418207, BE541746, BG033654, AI935312, AI935621, AW369538, BF130511, AI015569, AW513162, AA939269, AA448471, AI632610, AI041572, AA701947, AW384755, AA418072, AI129765, AI299834, BE972618, BF219225, BF696393, AI684697, BG180914, AA563729, AI368095, AA872409, AA889242, BE218751, AA071220, AA436287, AL039050, AW953085, AA860248, AW384752, AW135201, AI701386, BG149571, AW959685, AI079776, AW995991, N94822, BE694983, AA845922, AI538873, AW583510, AW385569, AI245209, AI702910, AA857211, W05711, AA771798, AI208955, AU158953, AI378351, N24653, AW162926, N62157, AA158824, AI753006, AI219664, AU158141, AW960726, AW591155, BF104126, AW675044, AI204096, AA564813, AI985502, W03098, AI016403, BF746829, AV686794, AV685681, AA281342, W31665, C21426, AL035875, R66327, AA362226, AW674313, AA984012, AW293080, H03830, AV733840, BF447356, AW408039, AI309266, AW292238, AI8622340, W15589, AI205711, AW408706, AI480297, R35709, AW373189, AW515420, AA313003, H84196, R49345, BF448740, AI435282, AV695502, AW294142, AA928614, H20897, AA483880, R06575, D61535, R53318, R66328, BE074636, AI696620, BE082764, R81443, AW407498, T32732, AI525293, AI269399, N75033, BE909618, BE081617, R25491, R67469, H80019, BE672304, AI218647, AI653129, AI770121, H03831, AI208629, AW513131, R81646, Z32775, AI381335, H19524, AW575666, AL079570, R06628, AA328279, BE709217, AW118713, H19452, AW795355, BF928430, BE176296, N76261, AL079569, BE071857, AI865287, R43221, N79285, AA318949, BE765956, AW749627, AI270007, N35440, AW795259, AA872775, AA347278, AL079568, R17128, AA356457, AA600029, AW899780, BG104722, AW964074, W23879, AB022663, AK023884, AK023698, AF060544, AC005740, AB015333, AC083862, AF249667, AF249668, AC004893, AX009343, AX009341, AX009337, AX009335, AX009345, AX009342, AX009344, AX009340, AX009339, AX009336, AX009338, and AX009334.</p> <p>BG252201, AV726464, AL529709, BE894106, AV726994, BF970560, BF132059, BF977798, AI703275, AW512938, BG164577, AL529708, AI767521, AI823746, BE220262, AA583438,</p>
HHAWB19	845	105677 4	1 - 2149	15 - 2163	

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HHATP38	846	105678 6	1 - 1140	15 - 1154	<p>             AL529876, BG167387, AI300509, BF034876, BG031449, BG164001, AI471460, AI524696, BF314865, AA633535, AW242169, AI141331, BE045747, BE221399, AI805778, BE297480, AA843665, AI571521, AI299824, AA434485, AA434389, AI569021, AA843530, AA082818, AA741539, AI805251, AV704867, AI308147, BF128614, AI091655, AI308088, BE904001, AI749633, AA746258, AA040199, AI497961, AA948212, AA040843, BF197824, AA742966, AA983317, AI371855, BE783995, AW952041, AI420031, AA469054, R56770, AA535588, AA352350, BF850175, AA292448, AI284332, BG167521, AA630120, AA400486, AA310070, AA182397, D80973, AA304346, AW770337, AW606565, BF876874, R88630, H28025, H39505, D80974, BF054728, N87395, BF054746, AA932606, AI581555, R90829, AA400532, AI720121, F32140, BF197523, R90830, AI687256, BF876828, BE157170, BE157094, BE157173, BE157093, R29477, T08411, BE157099, BF751287, BE157098, AA419103, BE157092, AA917955, AB004273, U43368, AB004274, U52819, U43836, AR060515, U43369, U48800, U52820, AR060517, U43837, AR060512, AR060513, AR060511, AR060516, AF022952, AR060514, AF032925, AF099134, U43370, and U80601.           </p>
HVVBE07	847	105680 1	1 - 1125	15 - 1139	<p>             BF115907, AI347987, AW571531, AW469391, AI318417, AW469530, BF732916, AW519112, AI745619, AI624640, AI148123, BF439103, AW246565, AI049532, AI141077, AW304970, BE328487, AA417098, AA838314, AA649876, AI954020, AI347379, AA614714, AU155615, AA029774, BG057767, BE350234, AI241721, AI422257, AI148124, AV721594, AI359911, N70830, AI359059, AA159067, BF968305, N67615, AI049846, AW015705, AA009674, AA373582, AI174368, T27684, T56814, AA069201, AI267963, AW118346, W73079, H81485, AA121951, AA055076, W07306, AI191548, AI808436, R40817, AA035256, AA773059, AW166460, AA773057, AI214117, N93955, AA156330, AW675349, AA872378, BE793803, BF982619, BF858206, BF858207, T29598, AW956178, AI252634, AA629421, AA055136, T56813, AA302186, H25812, AA308949, AA418136, BF208253, AW023605, AI611964, AA977778, AL524944, T50650, AW166214, AL037765, AI741822, BG036833, BF953193, AI916187, AW899528, BF207696, BE881367, AA081611, T47416, AA393875, AW496811, AL036550, BF822724, AW082037, AK025842, U60477, M64497, I89201, X76653, U07635, AF003944, AJ249441, U00697, X16155, X12795, M62760, AB012582, U16683, U50354,           </p>



					U50353, AX023382, AJ292928, AC010723, I20206, AF096812, AC007562, AB018524, AC008066, AF224268, AR074545, AF108190, D78176, S72345, AF235098, AF162800, AC006976, AC005186, AC068601, AF038149, AC008062, AC069018, AC007151, AC069019, X13484, AI031687, AC034108, AC005259, and AC004663.
HKAHB85	848	105680 4	1 - 1339	15 - 1353	AI189624, BE798410, AI826306, AI742365, AI923164, BE742614, AI523767, BE612598, BE730876, BF568739, AI743357, AI923662, AI874405, AI582377, AI951036, AI830906, AV722920, BE857117, AI864666, BE552477, AW269479, AI453638, AI658863, AI609762, AI935343, AI762473, BE251544, BE966347, BF059081, BE222650, BF434095, AI457104, AI192517, AI262763, AI312553, AI128385, BE392107, AI184898, AI208329, BE780463, BF111625, AI937815, AA156715, BE613338, AI084901, AI923949, AA156811, AW007906, AA478088, AA516138, AW194068, BF593875, AI074507, BF590787, BG054965, AI123728, AI923959, AI342586, AA725089, AI199610, AI369183, AA039529, BF000406, AW500544, AI694026, AI743576, AI285358, AW298302, BF242393, AI559628, AW803113, AV724161, AI472176, BF941760, AA135658, AV724606, AA714301, BF115666, AI830771, AW512691, AA846737, BG248683, AW006013, BE796082, BE889162, AA559059, AA887841, AA742700, AI910998, W45621, AA514670, AA047549, AA039510, H12597, BF221654, AI675498, AA075686, AW136156, AW628392, R36089, AA188215, AA340528, BE674700, H12647, T28463, BE219841, W28363, T19366, T19367, AA186362, AW044216, AA872728, BE796300, AI869260, AA419332, AA079138, BF130394, H26663, AI864116, BF182762, AI908177, AA328427, AA287370, AA425996, AI022515, AI015637, AA018470, AI935563, H30032, BF309963, T39530, H26648, AA283917, AI201855, AA018144, AW002235, AA147931, AI970783, AA074201, AA453079, AW967024, AA666180, AI767839, AI818846, AA971961, AA522463, AA971644, AI908203, W45569, BE267358, H20096, AI658744, AA524207, AA147502, AI560299, H20021, H23586, AI695631, AW028597, H19534, BF213007, AA057785, AI695962, W15192, BE392656, H30033, AI864118, AA047837, AA283918, BF315308, AA452911, T64430, AI935201, AA477630, AI911950, AW663032, BE264884, AA810162, BF183741, AA514790, AA425791, AA706619, BE378391, AI249587, AA135599, BE817810, AA399044, AI792444, BE872189, N78686, AI054233, AI053971, AA018145, AI191224, BE049111, AI523309, X12794, AF003926, X76654, L25674, and AW002470.
HUSXA15	849	105681 0	1 - 290	15 - 304	AI524678, AI525517, BF968916, AI954468, AI567133, AW300897, AI669011, AI660855, BF448589, AI635690, BG236776, AI815794, AW874612, AI480193, AI366904, AI537283, AW593618, AI817467, AI751715, AI366942, AW593632, AA459301, BE047378, AI016670, AA477441, AW161913, AW161619, AI926577, AI859809, AI983583, AW001554, AW264376, AA284935, AA404681, AW088937, AI038308, AW440417, AA653631, AW262712, BF115584, AA058887, AI984462, AW249502, AI798533, AW172776, AI750245, BG056549, BG055715, AW131904, AI864472, BG223340, AI434101, AI219769, AI028334, AI476359,

										<p>           BG056337, AW513432, AW614321, AA044641, BG057953, AW173425, BG236809,            AW089730, AW151185, AW273491, AW151246, AW152542, AI653495, AW028374,            AW079056, BG056495, AI669991, BG056557, BE383011, AW081907, AW662374, AI004075,            AI635300, BG056116, AW513739, AW089820, BG056662, AI798575, AI758265, AW192270,            BG055700, AW513319, AW590985, AW510408, BG056245, BG236869, AI499226, AI983887,            AI890811, AA863332, AI143192, BF941986, H79047, BG150531, AI083871, BE464961,            AI498954, AI050082, BF939352, AI984402, AI355505, AA931338, BE378790, AA290821,            AI800143, AA603462, AA443564, BG056643, AI368212, AA477419, AI937506, AI783946,            AI394446, AW305187, AA045494, BG056337, BG222513, AA877269, AI085531, BG056391,            AA573839, AW338416, BF116185, AA423811, AA732800, AI744135, AI401607, BF940194,            AA780788, AA035641, AW157695, BG222447, AW169233, AI628044, AA599831,            AW105698, AA152182, T28526, AI952277, BG056578, BE735654, AI149381, AI582123,            AA404300, AA635910, T71787, BG028200, BF512995, BE394794, AI989620, AI424643,            AA479582, AA028960, AL522455, AI910902, AI752221, T55018, BF338013, AI174571,            BF003123, T54853, AI473547, AI870363, BF342650, BG056426, AW439578, BG223351,            AI752280, AI696437, W73978, AI937725, AI873967, AL525470, BG056277, AI915690,            AA779586, AA837004, BG056275, BF37577, BF338926, AI783997, T71718, BG257349,            AL530392, AL528025, AL523902, BE786904, AA150059, AL532452, R43855, BG056528,            AI933001, AA479606, AL524677, T61617, AA479592, BF338803, BF525471, BE253473,            AA630379, AL527163, AA419054, AW169132, BF222724, AA356489, BE798005, AI872711,            AI696819, AI609594, AI432813, AL513809, AI637584, AI471712, AW168650, AI570781,            AL515173, AI274541, AI696829, AW168121, BE964664, AW168452, AI922215, BG029667,            AI581048, AI362637, AI480118, AI567351, AI923837, AA040562, AA833760, AI635942,            AI554186, AI648663, AI538716, AW080992, AI539562, AI439089, AW075413, AI524671,            AI475430, AA449768, AC007563, M69241, S37730, A09809, M35410, X16302, AF120326,            U21119, AK024538, AL110225, I89947, AL050138, I48978, Y11254, A08916, AF130075,            A08910, AF113019, AL390167, A08913, AX019230, AL133568, AK026959, AF091084,            AL359941, AF116610, AF090900, AL049452, Z82022, AL353940, AX019229, AF314091,            U91329, A08909, AL050149, I89931, AR079032, AF106862, AR087170, I48979, AF113691,            AF104032, AB051158, AK026741, AF138861, AL080124, AF097996, AL117460, AB052200,            AF111847, X65873, X82434, AF118070, AK000445, AL157431, AL389982, AL162083,            AL049938, AL122050, AK026542, AL137459, AF130087, AF130082, AL117394, AK026534,            AF116691, AF116644, AL137557, AL049430, AF113699, AF225424, AL359596, AK026744,            AK000083, AK026532, AF116639, AK000718, AF119899, AJ000937, AK026651, E07108,            AL359615, AF158248, AF130110, AL117435, AK026855, U00763, AL050024, AL133080,            AL35957, AL117583, AL133557, AF090903, AF113013, AF113676, AF116682, AL050393,            X63574, I03321, AF119878, X70685, AL049314, AF183393, AL162006, AF116631,         </p>
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HNOCH54	850	105683 9	1 - 2156	15 - 2170	<p>AL133560, AK026533, Y16645, AJ238278, AL133075, AK000486, AL122121, AF113694, E03348, AL049466, AF113677, AK027096, A63341, AL133640, E02349, AB048954, AL359618, AF130099, A07647, AL050116, AX006092, AK026583, AF130105, X84990, AF242189, AF125948, AL049464, AF177401, A12297, AL050277, AL133606, AB052191, AF118064, AX046603, AB048964, AF218014, AJ242859, AK025491, S78214, AB049758, L31396, L31397, AF116688, AB048953, AF087943, AK025339, AB047904, AK026592, AK025084, AL117457, AK026927, AL096744, AL050146, AL050108, AF130104, AL122110, AK000618, AL389939, AK025967, AK025391, AL049283, AF056191, AL049382, AK026784, AF017152, AL359601, Y09972, AK026647, AK000323, AF146568, AL122093, AL133113, U42766, X96540, AX026824, AX026823, A58524, A58523, AF113690, AK027113, AF017437, AK026504, AL049300, AK026086, Y11587, AL110196, A77033, A77035, AL137550, AF111851, AL137648, AF130092, AF116654, AK027213, AF116646, AL110221, AL133016, AL442082, S68736, AF090901, U35846, A03736, AF057300, AF057299, AL122123, AR011880, AK026865, AF078844, AL080060, AK024588, AF090943, AB041801, AK026642, AL137271, AF106827, AK025958, AK025414, AK025092, AK027204, AB048975, AL117585, AF116602, AK025524, AF207829, AR083266, AJ006417, X98834, AB019565, AK000652, AF090934, AF130066, AF113689, AL133093, AF119875, AL389978, AK026526, AB047615, AB050510, and AK000137.</p> <p>BE260056, BG035487, BF344378, BF526374, BF984346, AL042576, BE260510, AL978623, A W961029, A W410058, BE314256, AU134349, BG253002, A W964329, BG031222, BE783064, BE395235, AI818399, BG003227, BF087734, A W995362, AI038345, BF313051, BF087860, BE205802, BE350196, AA699733, AA921973, A W967225, AI033886, BF758009, BF087837, AI365948, BE712425, A W615817, AA430575, AA219262, AI921951, BG031861, N42316, AI219706, A W297541, BF087848, N29539, BF996630, AA113157, R11659, AA478187, AI051886, AI805015, AA961539, AA478030, H98088, T57479, BG015611, AA878785, BE712676, H53625, AA350477, A W247055, BE939228, A W751613, AA599679, T77392, T49353, R12265, F13292, H53664, R45397, BF932652, AI288384, AA338766, AA350476, AA430576, R39518, T49352, AI221193, R25058, T16558, BE931199, AA299814, AI240918, AA350478, A W630432, AI368888, Z41335, AI241134, N57473, F10891, Z44605, BE887369, F08331, F05060, BF378261, AA321390, T57507, T32113, AI798318, A W197803, A W874491, R45833, A W250407, AA112401, F03653, BG004651, T08801, AI547229, BE168979, AI926462, BF378510, AI905001, AI719695, BE184647, A W273717, A W878730, Z24861, BF038255, A W860261, BE168984, AK025946, AF035292, AB014557, and AC009955.</p>
HOCPP16	851	105685 6	1 - 1027	15 - 1041	<p>AL522455, AL528025, AL532452, AL523902, AL524678, AL528052, BF340685, AL525320, AI815794, BF526000, AI800143, AL527163, BF337577, BF116185, AI926577, BF206655, AL530392, BE383255, BF206587, AI480193, AI499226, BF207314, AI669011, BG257349,</p>

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HNOAH83	852	105686 2	1 - 1537	15 - 1551	AL529607, AL525913, AL536158, AL520415, AL520414, AL526120, AL529606, BE871581, BE799282, AU119186, BF337601, BE908277, AA826247, BF344321, BE273446, BE797849, AI127898, BG115251, AI809875, BE880755, BG169799, BF525762, BF526032, BE907671, BE872651, BE407091, BG119008, BE908601, AL529168, AL529167, BE910353, BE868097, BE548520, BE617451, BE250135, AV707005, BE870326, BE898755, BG251022, BE311912,

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HE2OU10	853	105687 5	1 - 879	15 - 893	<p>BF664061, BF663274, BE890780, BE906383, BG104225, BE905149, BF245736, BG104459, BF213989, BF669215, BE777522, BE745173, BF207769, AA307765, BF130113, BE733011, BE296137, BG255970, BF026737, BE894590, BE891634, AW732973, BE385310, BE277240, BE727813, BE266671, BF026593, BE386183, BE386351, BE407399, BE409533, AA069652, BE385159, AU140029, AL037677, BE872592, BE891512, BF026137, BE728699, BF132284, BE727942, BE262578, AV714339, BE897234, BE270790, BE386494, BE388079, AW161259, AV737768, AV714054, AA428176, BG104294, AA114853, AW327735, BE206811, AV762308, BE252245, BE730829, BE886666, AW966966, BE336882, AI557263, BF685382, BF102513, AA398171, BE748126, BE613563, BF683073, AA700878, BE385788, AI743584, AA101916, BE547370, BF528849, BE870266, BG248372, AV702432, BE270857, AI743198, BE270990, AV717679, AV708703, BE222997, AI066524, AW025366, AV715039, BF240874, AV764193, AA868378, BF114637, AI589860, AW007795, AI497772, AA399235, AW025357, BG164621, AW732971, AA425147, BE743276, BE259976, BF125638, BE677843, BE271114, AA428702, AI743131, AI191406, AA947862, BE388033, BE277311, BE390926, AW131703,</p>

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HODGM46	854	105692 7	1 - 870	15 - 884	<p>AW963219, BF924687, AW407007, AI125143, Z36862, BF817511, AA847341, AL044966, AA837771, AA582746, AA557945, AA610255, AA368329, AI732911, AA579082, F35684, AA522864, AI459879, BE049455, R67701, BF934303, AV732057, AA635150, AU147226, F26395, AW021674, AI633386, AI559720, AW028376, AV730440, BF950367, AI468993, F00937, AA745302, AA846046, AA640563, AV760155, AI251024, AW237903, AW089395, AW471494, AA354868, AA158549, AI915081, AI370470, AI445699, AI538404, AW275432, BE156328, AV714079, AF236698, AI444575, AA507990, AU159329, AA219166, AI308529, H47461, W69639, BE409402, AA610644, AA825954, BF724945, AW407679, AV649510, AA015948, BG059924, AI367551, BF815277, W45215, AI572680, AA351868, AA506734, AA368659, AI636734, BF914861, AA507291, AA569206, AI246386, AW979184, BF965924, BE207536, AW238016, R79396, AA935827, AA578245, BF772886, AL135490, AW196288, AI520984, AI828721, BE889093, AW029626, BE149998, AA661590, BG178582, W45416, AA460786, AI355246, AA155817, H29914, H68343, AI888050, AI921765, H79277.</p>

AA219349, F16409, AI475611, AI884404, AI281622, BE464585, BF770715, AW162314, AW961582, AA468458, BF997771, AA706202, BE929881, AW023975, T03928, F34151, AA132445, AI567676, BE156254, AA804694, AL079894, AI245693, AV761240, BF884894, AW747980, AI114494, AI434103, AI049630, AA349016, AA664963, AW162332, BE646409, AA362440, BF131019, BF886686, AA831919, AW963295, AI619727, AA557790, BG029386, AA225630, AV711393, AU157238, N66744, AA778580, AA582374, AA650528, AV731938, AU119330, AA828834, AW992398, BE139139, BE072021, AA719523, AI250552, T40838, BE042006, AI251034, AI254770, AI284543, AA664126, AA385094, AI350189, AI054090, AC008543, AC007201, AC004973, AC007030, AC002369, AC005913, AB017602, AP001627, AL365271, U47924, AC010553, AC004253, AC005067, AL121869, AL109952, AC004587, AC011811, AC004079, AF031078, AL121905, Z85987, AF030876, AL139390, AC005197, AL031447, AL389883, AC027319, AP001717, AL031666, AC005015, AP001747, AC010458, AC010358, AC011484, AC005021, AC004264, AC005726, AL022578, AC004796, AC020552, AC009194, AC006539, AC008733, AC009530, AC009244, AC004491, AC022543, AJ009616, AC011495, AC006163, AL034423, AC010473, AC006597, AC009001, AC007193, AC002126, AL034420, AC002350, AC005914, Z82201, AC006130, AC005793, AC007285, AC004386, AC000159, AC024084, AP000511, AC006345, AP000692, AC004106, AC008267, AL121586, AC002418, AC002091, AP000502, AC010463, AL049591, AC020904, AC003109, AD000864, AC008569, AL139289, AC008521, AC005800, AL024498, AL022336, AC010328, AL117334, AC005488, AC007792, AL162458, AL035659, AL133163, AC008753, AL117258, AC003030, AC007390, AC004980, Z68165, AC005971, AC006071, AC005291, AL020997, AL353194, Z73420, AC004166, AL022311, AL391602, AC007637, AC005736, AC003041, AC006581, U73634, AL133353, AC005046, Z93017, AC005601, AC024083, AC005907, AC005531, AC004089, AC008496, AL035450, AL096840, AF205210, AJ297357, AL049872, AC005566, AL049776, AL049839, AC004598, Z98950, AL136228, AC010422, AC008929, AL158198, AC000353, AL050348, AK022177, AC011469, AL022717, AF146024, AL035410, AL109925, AC005952, AC005317, AC068499, AC008556, AL110122, AC011248, Z81364, AL035681, L44140, AC007387, AC004972, AP001712, AP001759, AC002073, AB023048, AC002549, AC004381, AL160231, AC005696, AC012156, AJ289880, AF288992, AL122020, AL353152, AC005089, AL136304, AL138688, AC003969, AP001670, AC011292, AC005288, AL132713, AC004859, AC007327, AC004881, AC004971, Z84466, AP001760, AL162151, AC023796, AC008736, Z85996, AJ277557, AL117354, AB042297, AL133227, AL450169, AL162430, AC004867, AL355101, AP000510, AC007277, Z93020, AL138919, AL445435, AC005103, AL033538, AP000142, AC007388, AF196972, AC002077, AC018758, AL160175, AC021036, AC023600, AC003098, AL022313, AL354836, AC005940, AL138696, AL118516, AC005261, AC010526, AL049761, AC083863, AL022721, AC013429, AC007450, AC003025, AL109758, AC003029, AC008738, AL136137, AC005098, Z82248, AC008403, AC002470, AL135783,



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HODFR44	855	105699 0	1 - 728	15 - 742		AA897542, AI918140, BF975472, AI015702, AA586867, AI086135, AI858527, BF306114, BE300941, BE298569, AI090918, AI191755, BE328004, R59186, BF204020, AL524762, AW075596, AA291767, H07084, BF827044, BF737073, AA291766, H53735, AW206845, BF690570, BE019345, BF305732, AA909455, BE397797, AA921923, AI290282, AW954906, R38009, AI479903, T27152, BG222851, H53734, AW361311, AW627470, BF737063, BF761437, AL137516, AK025712, and AC022515.
HCHND12	856	105700 9	1 - 391	15 - 405		BF155196, BF155195, BG222449, AW371240, BF990033, W07572, BG013608, BF736389, AI907180, BF759690, BF742354, BF350339, AI671621, AW236992, AW410534, BF108852, AW057736, BF743441, BE297998, AI906106, AU140362, BF743462, AI907178, AI907188, BF984645, BF083392, AW371253, BF083378, BE615590, BE858290, BE698057, BF084125, BE091682, BF083386, AR034479, AR080259, I21124, AB008451, I21129, D16295, AR082744, AX023363, U71126, M11765, M12036, M11764, and AR086088.
HBHAC29	857	105715 7	1 - 802	15 - 816		BF944637, R17484, F11360, BF364648, BF957813, BF967711, BF090330, M29273, AC002132, M22357, M31811, I07878, I00756, M36702, I00254, M14871, X05301, M16800, X06554, M74787, and X98405.
HTPFW87	858	105717 0	1 - 2298	15 - 2312		AI889084, AW583218, AW583210, AW583686, AW583840, AW582954, BF883469, C06313, BE045909, BE045774, BE047051, BE045791, BF913619, BE045879, AW584003, BE042657, AW583474, AW862527, AI274789, BE045869, AW583430, BF197864, BE045900, AW087963, C06104, AW583020, AW583372, AW371544, AW582943, AW873924, BE045778, AW583323, AW873944, C05994, BE045797, AW874333, AW293311, AW873851, AW873852, AA845062, BE045910, AA845140, AA844754, AW873837, AA921397, AW014253, AI249954, AW583254, AA804606, AW873893, BE047058, AW874447, AW873952, AA405888, AW873926, AW338510, AI566621, AW874339, AW873937, BF755849, AW873888, AW242204, AW873810, AA835252, AA844759, AA405728, BE970129, C75365, T11187, AA845117, BE969807, AA845035, BE969825, AR012827, M54994, AR048597, A31800, M85201, S79774, AR012828, AF081673, M28402, AR022356, I41327, X16054, M15893, Z22803, AF072711, I38891, M94579, AF206618, X65944, AC002097, L14813, AC000395, M94580, AF206619, M69157, S70516, S70517, S40178, U52425, AC000394, and AR012831.
HISAF60	859	105721 2	1 - 3598	15 - 3612		AL524621, AL521404, AL524622, AL521403, AW978618, AL529722, BG256352, BE909801, BE783472, AW953057, W60630, W29012, AA149513, BF968833, BE783711, AA149644, AW965598, AW977554, BE834598, AA306190, AA404374, AA928795, AW026671, AA733045, AI131505, AW051295, AI139050, AI144018, BE855656, AW162934, AI089282, AI571763, AI351676, W60631, W76344, AW005213, AA146937, BF366791, AI146486, AW262622, AI557215, AA635131, AA780109, BF734995, W74364, AA978196, AA029134,

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HHESW02	865	105747 8	1 - 1876	15 - 1890	AA551061, BG034640, BF001802, BF795036, AV764202, BG032289, BG259953, BF979110, BE408962, BE561363, AV760691, BG033633, BE348456, BF854361, AW402086, BF062592, BF691935, W46419, AI952866, AI718495, BF691364, AA970444, AI289901, AI095214, AI061277, AI347580, AI826942, AW511617, AA312289, BF217041, AA848029, BE560239, N68961, BF088217, W49781, BE246728, AA962522, W00660, W48762, BE729436, AA577013, AA354415, AA328452, AA989644, C01310, AI970883, AW513997, BF810694, AA355219, AW955293, AA361050, AA327850, AI264968, AA360699, BE246766, BE826080, AI087069, AW058063, AW856095, AA829953, AA358539, AA337078, BF433442, AI525090, AA319325, AW869241, AA381176, AI905583, BE711695, AU076504, AI688129, BE832438, AV651700, AV707405, AW955686, AV727550, AV709358, AF062075, AF118146, X77598, AR086332, and U38894.

HVVBW84	866	105756 1	1 - 2629	15 - 2643	BF434410, W61014, AI872367, AI982960, BF725752, BE349113, AW028096, W61021, AI088610, AA482502, AV720322, AW385011, AA496612, AI831627, AI627573, AI635628, AW139141, AA808856, AW080876, AW519062, AA284917, AA482650, AI089980, AA723505, AI366142, AW874653, BE677534, AA293118, AA719905, AA864412, BF931588, AI687706, AA429070, AI694171, AA581667, AI829189, AI752809, AA293006, AW081800, AI371181, AI016196, AI698475, AI190129, H61361, AA131558, AA131445, AA908187, AA745565, AA460613, AW193045, AA394138, AA411044, AA496606, AA640267, AA953044, AA534485, BF940862, AW366318, AA428779, AW366316, AW366317, BF349341, BF935061, AA285087, AI752810, AA290820, AA860949, BF941796, R33678, AW800410, AW884304, R56683, AA419232, AA669431, R14209, AA293359, H62387, AA496564, AI432550, AA323404, AI828225, U53082, AA535688, AA419334, AI932523, H30395, AV694871, AV686417, AV682997, AV709604, AV727314, AV725618, AV707401, AV727822, AV706223, AV706882, AW961671, AV729220, AV653353, AV652001, AV726590, AV726681, AV654035, AV707024, AV651955, BE839185, AV706532, AV655901, AV652156, AV703456, AV702954, AV726156, AV726194, AV726559, AV706183, AV703168, AV706527, AV707510, AV707933, R33574, AV727029, BE765312, AV725826, AV705047, AV687176, AV704592, AV660096, AV704553, AV726259, AV702026, AV725617, AV692345, AV702833, AV651694, AV725920, AV728997, AV709880, AV702832, AV702427, AV705384, AV702854, AV704182, AV709273, AV728715, AV704124, AV706089, AV651897, AV728471, AV702345, AV688061, AV702998, AV704955, AV701560, AV658332, AV701707, AV706165, AV702164, AV704269, AV706677, AV726787, AV728270, AV727929, AV705684, AV725956, AV703515, AV703599, AV725441, AV728012, AV703970, AV702417, AV660258, AV727103, AV707830, AI906657, AV725709, AV702817, AV703213, AV705014, AV706925, AV652528, AV709549, AI906652, AV705299, AV729597, AV727978, AV708991, AV729242, AV691615, AV705280, AV728642, AV725577, AV727238, AV726502, AV709356, AV654282, AV728404, AV705632, AV658436, AV727343, AV655577, AV701754, AV709935, AV702516, AV725582, AV651503, AV706162, AV708786, AV709580, AI906659, AV707654, AV702728, AV704116, AV707798, AV702790, AV704934, AV727583, AV702738, AV727126, AV693149, AV725645, AV656224, AV728874, AV701874, AV726628, AV706741, HI4646, AV709256, AV658784, AV706910, AV706734, AV704180, AV753729, AV728312, AV656240, AV704974, AV692972, AV703436, AV725991, AV727459, AV725380, AV703542, AV728436, AV728546, AV704234, AV656283, AV701183, AV709932, AV645545, AV706758, AV701496, AB024536, AB024537, AB003184, AK000817, AB024539, AB024538, AX020190, AR038855, AR088705, AR062871, A25909, AX047063, AX009487, AX026824, AX047064, AR017907, AR079804, AR091393, AX028305, AX026823, A85395, A85476, AR062872, AR062873, AX001082, AJ244004,
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HEAAC39	867	105760 3	1 - 1498	15 - 1512	<p>AW970305, AW970218, BF589322, BE856555, A1817185, AA709141, A1808138, AA478875, W73741, BF438291, AW316562, A1078268, A1141596, A1080079, A1685566, AA568446, A1744816, C20941, AA236573, AA603741, AA478618, A1139198, W73647, AA582362, A1187807, AV729220, AV701704, AV707649, AV702673, AV706330, AV701858, AV703214, AV703086, AV706104, AV726830, AV701783, AV706012, AV701953, AV699269, AV706718, AV647692, AV702498, AV707401, AV709356, AV707420, AV729473, AV727822, AV706223, AV651897, AV725031, AV725321, AV708872, AV662242, AV699147, AV727139, AV699223, AV699153, AV701874, AV703417, AV705234, AV647654, AV701183, AV707268, AV706992, AV702783, AV699182, AV707640, AV723369, AV709935, AV708069, AV701614, AV725991, AV707311, AV702671,</p>

AV707589, AV726628, AV709235, AV705655, AV726194, AV702954, AV702383, AV703862, AV704401, AV707769, AV701833, AV708809, AV727126, AV709222, AV703436, AV704879, AV728743, AV656004, AV705239, AV727562, AV701873, AV703783, AV702146, AV725181, AV704660, AV706410, AV702851, AV707117, AV705447, AV725617, AV706882, AV708347, AV692972, AV703525, AV703761, AV729593, AV705550, AV654035, AV705467, AV703090, AV655067, AV702187, AV706596, AV728255, AV706501, AV701730, AV704865, AV701184, AV727469, AV707184, AV726783, AV705174, AV704358, AV704954, AV726838, AV729129, AV704973, AV702071, AV706394, AV705263, AV708720, AV729388, AV706874, AV699156, AV702787, AV706889, AV726183, AV707556, AV709775, AV728997, AV729255, AV706395, AV658784, AV706991, AV707942, AV704245, AV705662, AV706742, AV709886, AV726653, AV701728, AV704590, AV705500, AV702928, AV705866, AV703632, AV706758, AV707658, AV727018, AV656240, AV703168, AV650367, AV704520, AV701596, AV709025, AV707528, AV727459, AV727932, AV706989, AV685688, AV705504, AV728715, AV726754, AV702222, AV705814, AV702339, AV727314, AV728884, AV705525, AV702354, AV707948, AV701876, AV701521, AV706162, AV701851, AV704279, AV701586, AV706620, AV726755, AV726948, AV728539, AV701499, AV707322, AV688061, AV702854, AV701879, AV705343, AV725845, AV706357, AV691615, AV705020, AV704626, AV707783, AV703388, AV705532, AV707822, AV650843, AV725255, AV706035, AV704971, AV727238, AV727355, AV706290, AV702486, AV707686, AV703542, AV709273, AV706453, AV702728, AV653897, AV709596, AV726703, AV693117, AV729555, AV707882, AV704064, AV702792, AV707685, AV704981, AV726392, AV709733, AV701626, AV707690, AV706741, AV728455, AV706683, AV703367, AV705321, AV703591, AV702958, AV707451, AV726067, AV705724, AV726480, AV703505, AV707088, AF086298, AX020190, A25909, AR088705, AR062871, I18895, AR038855, A85395, A85476, AX028305, AX021518, AX026824, AX026823, AR037157, AR079804, AJ244004, AJ244005, AR091393, AX009487, AR017907, AJ244003, AR062872, X81969, AR062873, AR008429, AX001322, AX006816, AX042372, AX001082, A20702, A20700, A43189, A43188, I66487, AX047063, AX006825, AX006826, AX006822, AX008555, AJ244007, I66485, I63120, A98767, I15717, I15718, A93963, A93964, Y16359, I44681, X83865, A84772, A84776, A84773, A84775, A84774, A98420, A98423, AR054109, AX006821, AR067731, A98432, A98436, A98417, A98427, I08395, AX035462, A86792, AR067732, AX047062, A58522, A91750, I08396, M28262, AR047064, A93016, D78345, A58524, AX006823, A58523, I13349, I62368, A230935, AR038762, E03627, I48927, AR038066, I60241, I60242, A60212, A60209, A60210, AX003206, A60211, I49890, I03331, I00682, A91965, A02712, A02710, E12615, AX018504, AR035193, A20699, E14304, A77094,	
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HSLJC80	868	105779 7	1 - 3111	15 - 3125	<p>A77095, A11623, E00609, A11624, A07700, AX027811, AX027809, E00696, A13392, A13393, AR031488, I13521, AR080470, E00697, AR077142, A81878, AX011024, I52048, A27396, AX027813, AX030369, AX033488, AX030368, AX033489, E13740, AR043601, AX033490, AR069374, A95117, A95051, I06859, AR027100, AR095492, I44531, A11178, E01007, I28266, AR069375, AX032758, A18050, AX012337, AX042377, AR083151, AX027812, AX035980, AX027810, AR073846, A23334, AR091518, A75888, I70384, AX033474, AX027816, AR072535, AX033486, AX009712, AX033487, A64973, AX042375, AX027817, A60111, AX027818, AX027814, AR069650, A23633, I21869, I84553, AR096545, A92133, AR007512, AX001330, AX042373, E03813, A10361, AR095490, I84554, I66484, AR095491, AX003207, A24783, I44516, A24782, AR093384, A18053, A70040, I66482, AR009151, I66483, E16678, AX004550, A82653, AX036660, AX036661, I66498, I66497, I66496, AR093385, AR027099, I66486, E16636, AX003194, AF149828, AR074365, AR085082, AR085089, AR085091, AR051652, AR072540, AR085079, AR085083, AR093383, AX023553, A11245, AX023548, AR093392, A35536, A35537, A02135, A04663, A02136, A04664, I01995, AR031566, Z32836, A90655, I25027, AR051651, AR069426, AJ230902, I26929, I44515, I26928, I26930, I26927, I08051, U94592, AX032992, AX032993, Y09813, AJ230951, D50010, I19525, AJ270780, I05558, AJ231009, N73406, and AI798309.</p> <p>AW015571, BE062375, BE062376, BF115021, AI743133, BF345439, N46870, BE062349, AW469388, AI743132, AI655602, AI971441, BE466808, AI279521, BE677454, AW613424, AW361217, AI675397, AI925033, AI950217, AW753254, AI453144, AW629918, BF475424, AI623681, BF475334, BE939173, BE185689, AW361218, AI673826, AI359081, AI587561, BE677635, BE839901, AA448109, AA447610, AI084947, AV709700, AI634916, AI499501, AW580849, BF927416, BF847698, AA346223, AW796056, N47191, BG150486, AA557783, H26374, BF836746, AI904592, AI904600, AW748401, H27486, BF356963, AA255594, AA255432, BF995433, AI587580, AA249516, N47207, AW796055, AW580825, and AL122104.</p> <p>BF307050, BE294659, BE295378, BE270183, BF306043, BF304968, BE299101, AA380349, W19499, BE832758, AW882273, AW263540, AA157229, AA225180, AW409843, AA151564, AA909334, AY009951, and AF116865.</p>
HEOAD12	869	105784 2	1 - 1124	15 - 1138	<p>AL520942, AL520941, AL524223, BF975546, BE790646, BE250104, BE741659, BE908458, BF346226, BG253282, AI992170, BE271697, BE891409, BG116444, BG032571, BE383072, AL534026, BE390699, BE257602, AL534027, AL134371, BE250877, BE790095, AA527588, BF316156, AI249023, BG170667, AL524222, BF313879, BE393833, AW007167, AI193019, AI435295, AW249684, AA315000, AI887652, AW160553, AW629814, BE831627, AA419118, AI878843, AI143093, BE795572, AA639468, AI762318, AI141843, BE305036, AW630286, AI093040, BE272301, AI355887, AI469829, BG059403, AW058047, BE891650, BF432375, AA769826, AA516117, AW954502, AW406598, AW245217, AI500434, BE907766, AI360848,</p>
HVVBT41	870	105788 0	1 - 1835	15 - 1849	

	HAZAE42	871	105791 5	1 - 877	15 - 891	<p>AI360627, AA829263, BF973383, AW162348, AA292739, AW305301, AF150177, AA829261, AI026015, AA065261, AA468594, AI570428, AI272753, AI025635, AI431477, AI356413, AI285290, AA723167, AA772406, AI758572, AA419155, BF896723, AI567444, W60078, AA292740, AA426124, AA804359, BF901807, M78872, AI879402, BF817528, BF924799, W27536, AI093981, AA456338, AA065263, AI050976, AI536719, W52850, AA065262, AI499057, AA494517, AI202110, AI191772, AA393388, BF882870, AI969483, AW613776, BF093157, T50063, BF857386, C18340, AW515520, BG115358, BF093166, AI933649, AI361629, T12239, BF899941, R44560, AW058070, AI360335, N31024, D63172, BE645919, AI621352, AW889390, AA454691, W69640, AW467694, AA378222, BF752025, BE174966, BF343963, AI249913, R24856, AI564653, AI653909, BF992556, R46328, AA478329, BF528267, W67832, AA410700, BE546949, W67968, AA235391, BF768160, T69638, BF093158, BF093167, AI567607, BE939001, T35071, BG249527, BF834920, BE378906, C00258, BF090917, BF760706, AI985993, BF804516, BF948632, AW867372, AW379505, T10814, AW799935, BF829924, BF753005, AA446743, BF951549, BE305164, AW867554, AI874375, AI902997, BF821220, H44663, H44749, BE293464, AW961410, AW958927, AI035587, U80744, AF161347, AR018138, and AI499044.</p> <p>BE618433, BE264353, BE313324, BE263795, BE383317, AI912683, BE618668, AA779820, AA991941, BF337731, BF965805, BG149406, BF057515, BE550120, BE793000, AI161191, N92707, AA926829, AA602406, AA911645, AI032667, BE503970, AA844970, AA576535, AA936479, AI094810, AI312822, AI365506, BE264410, AI143188, AA677341, AI091456, AI298331, AI273560, AI094902, AW470381, AI095731, AI277885, W79024, AI161190, AA729304, AI393476, AW949867, AU126753, AA948313, AI355600, AA861985, AA922331, AW160933, AA719310, AW162238, AI161149, AI041523, AI339212, AI014445, AI078542, AA987978, AI078619, AI350176, BE464539, AA935049, AA972852, AI817990, AI312673, W15310, AI935214, W39738, AI669550, H42852, AI873672, BF508021, BF437071, BE673460, AI873653, AI095798, AA991983, AA115875, AA594838, BE925134, AA534320, AW964391, AI240950, BF748841, AI092670, AA502784, AA580530, AI219314, BG152840, AW162538, AI432612, AI424202, T29324, AW381155, AI972574, BF350356, AW381156, AW381157, AW381154, AW381160, AW381158, AI673210, AA902771, AI865515, AW381367, AA340935, H42452, AI700003, AI141677, BF061619, W20323, AA297723, N84685, AW237917, BF847511, AW371365, AA594920, AW160737, AA364730, AA700832, AI740998, AW381361, AI971961, T19132, BE646310, BF058452, AI873154, BE299714, AA129778, AW381159, AA129681, AA371867, AW518312, N91971, W24300, BF941876, AW189399, BF933605, AA933767, AA628047, AA115874, AA911071, AI119457, AL119324, AL119399, AW877209, AI284131, AL134524, AL042544, AL043152, W95140, AL119443, AA745155, BF213477, AI961590, BF034010, AW804686, AW081670, BG176595, AW392670, M11433, X07437, X60367, M36809, M16459, M19257, X07438, AX030435,</p>
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HPRBN60	872	105794 8	1 - 1292	15 - 1306	<p>BF337618, BE255115, AW603700, BE896817, AW603677, BE727938, BE276149, BF574363, AW937845, BE252116, AW849081, BE561148, AW376536, AW849079, BE514132, AW384020, AW384003, AA043138, BF348905, BE560153, AL047014, AA152015, BE156263, AA147575, AW384016, AW848806, AA594982, AI825953, AW937773, AA446384, BE396902, AI422448, AW952134, AI160548, BE856434, AA211287, C03422, BE385571, AW384004, AW381024, AI572008, BE730503, H10239, F36732, AA528114, BE706949, BE156337, AA152022, Z33590, Z37011, AA040869, AI149862, N49013, BE156286, R84898, F12229, AA152219, R56182, H26826, R55910, Z24984, H13040, AW875889, AA318749, BF994321, Z25108, R13067, BE857659, BF477403, H26349, T66390, BF673084, BG010755, H22780, AA030050, C04576, AW516130, BF692959, F26947, AA429964, D57868, R20192, F29092, BE858947, F30389, D62688, C16326, AI096674, F09858, AI139180, AI201475, AW390825, Z28845, AA443358, AI139454, AW068999, R40498, AA037606, AI373942, T25134, AA156446, C16141, D57713, AA152096, F18878, AI032649, AA090702, W59970, Z28703, AW190966, AI720482, R56071, AI339673, R55825, AI368681, AA595134, C16104, BE706948, BF350778, AA993887, BF445806, AI147605, BE156340, H05938, AI200609, D57624, D57229, AA211332, D58131, D57532, AI582955, AI148481, BF978143, N48284, D56502, AA972352, AX013692, AF002282, AF039018, AF002280, AF002283, AF002281, and AI249218.</p>
HOVCZ68	873	105795 8	1 - 2115	15 - 2129	<p>BG116678, BF243086, AA460133, AV662045, AV687215, AV724260, AV702152, AW450588, BF438173, AA236796, BF214971, AI653152, AA700186, AW963679, BE740138, AI692488, AW885555, AI744585, AW293745, AA693931, BF983866, AW304368, BF195586, AI214602, AA236842, BF360988, AA461488, AI341662, AI653052, AA701860, BE563637, AI420813, AI695758, AW296315, AI864175, AW957517, AI214697, AI022448, AI246345, AI038613, AI638793, AI631642, AI805779, AW019975, AW020821, AW068525, BG179259, BF223132, AI633543, AI655217, AW608280, AV693632, AW886582, AA374097, AI905366, AA450279, AW026664, R00254, AI002466, AA244063, AI391492, AA194965, AW885727, AI249184, AI811272, AW594616, AI420637, T55576, AA340655, T29589, AI168319, AA404500, AA384360, R01927, AA373240, BF360633, AV690607, AW883206, BE833779, AW068788, AV684001, AW367046, BF063831, AW884828, AI271355, R00364, BF588606, R01976, AW605113, AW883935, AA195600, AI263408, AW886854, AW885124, BE833700,</p>

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H6EDF71	874	105797 9	1 - 1188	15 - 1202		AL520437, AU142804, AL529893, AL532350, BE746380, BE790665, BF338510, BF032858, BE879618, BF685188, BG111720, BF038502, BE876973, BE874884, BE514853, AL520436, AU128255, BE746932, BE271355, BE878839, BF037429, BG260711, BE929847, BE787588, BF085958, BE929836, BE394324, BE514701, BF034098, BE745477, BF032757, A1961479, BF034418, AW190446, AW580763, BF856484, BE929826, BF085962, AW794866, A1923277, BF036383, BE271711, BF367936, BG163405, BF036043, BF085965, A1884400, AW129387, AW470030, BF085961, BF367954, BF838606, BF033708, BF155010, BE929780, BF893428, A1432621, BF112058, A1701980, AA478755, AA418709, BG003366, W93910, A1635480, W93648, BE929849, BF792654, BF094272, A1491762, AA418855, AA918056, BF792592, A1270167, BF874313, AA938271, AA558268, A1707674, A1338213, AW803891, A1718327, A1613026, AA418701, BE880059, AA471190, AA455447, A1082024, A1476785, BF834237, A1280720, A1275229, AW817309, A1708271, A1742309, AA588253, A1167998, A1857345, AA455448, BF315654, BF089052, BF089047, BF831778, AA834685, BE825546, AA669129, AW090377, A1445021, A1016116, AW749412, AW662036, AA773707, AA773711, A1474588, BE094468, R31499, X69398, Z25521, AB012693, Z25524, D87659, and AF017437.
HCOOF60	875	105800 1	1 - 1061	15 - 1075		AL526177, BE253593, AL532360, BE799956, A1527147, BE798900, BE731866, AL526332, BE791805, BF311672, BE887602, BE887139, BE906158, BG032280, BE274611, BE790863, BE747125, BE793231, BG033981, BE794214, BG105698, BE795680, BE883369, BE314315, BE888057, BG030175, BF037460, BE269400, BE798571, BF794891, BE382478, BE889569, BF205550, AL524393, BG165274, BE612547, BF315624, BG122586, BE262243, BG036814, BF968944, BE729909, BE264533, BE887730, BE252503, BE267719, A1678077, BE728326, BE292738, A1884863, BE407519, BE885803, BF206103, BE278817, BG177708, BE880576, BF317101, BE513876, BE207288, BE793544, BE794750, A1869333, A1884942, BE621419, AL524942, BF689214, BE562063, BE268715, BE907860, A1532359, A1859296, A1524941, BF317484, AA829937, AW250313, BF308280, AW300936, BE782513, AW665495, BE542407, A1571293, BE730436, BF792913, BG179097, BF969617, AW674596, AW273060, BG250687, BF684404, BF205595, BF970179, BG056166, BE312868, BE891748, BF971047, BE261776, BG116513, AW615753, AW248281, BG167242, BF035772, AA582906, BE297066, AW615587, BE392439, BF203659, BF128828, BE896101, BE884376, AA928110, BE781600, BE408171, BE780535, BG122278, BG031477, AA283711, A1589898, BF038700,

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HVV/BH81	876	105805 9	1 - 3719	15 - 3733	AL518676, AL518677, AL531304, AU141086, AU118214, AI373164, AU133052, BE270816, AU135714, AU120690, AL534584, AW850569, BG116153, BF980876, AU131160, AU124508, AU126480, AL042922, AL531305, BG257200, BE882992, AU133074, AU136504, AV728061, AV726133, BG258667, BG181161, BE893908, BG252256, BF983502, AV757242, BG260910, BE891169, AI831087, BF983539, BG250922, AU139474, BG251940, BE542434, BG250000, BG027005, AU127917, BG032069, BE897086, AU130237, BE891054, BE897202, AW105385, AU127922, BE087523, BF795690, BF797994, BE294893, BE514490, AV712214, BF791761, BG108276, BE888881, AU123253, BF672104, BE904546, AU122800, BE268292, AW991449, BE874925, BG114816, AU120326, AV715180, BE886051, BF982166, BE879865, BE304478, AW604316, BE268335, AW377087, BF681298, BF304610, BF690679, BE620261, AW953561, BF871794, BE514422, BF696991, BG120797, BF686666, BF784110, BF245659,

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HSPTJ51	877	105817 2	1 - 3338	15 - 3352	AA773287, AA993499, AI032485, T24851, T16570, D29179, F12684, F13659, F10295, AI252212, AI262257, AI273428, AI307318, AI342981, AI367963, AI371950, AI380309, AI446149, AI494183, AI499217, AI419514, AI583289, AI584091, AI423406, AI215005, AI656517, AI659148, AI638551, AI267330, AI291604, AI589198, AI522113, AI538417, AI611454, AI612785, AI767364, AI783468, AI784272, AI818454, AI818461, AI823506, AI866880, AI867959, AI871322, AI935700, AI934160, AI970235, AW015075, AW088209, AW074345, AW074385, AW075425, AW151038, AW236437, AW242817, AW243366, AW272280, AW188817, AW078860, AW292200, AW627630, and AW630913. AU117722, AU117639, AU125461, BG257346, AU125520, BG259614, AI041666, AU134919, BE887285, BF340359, BE270501, BF971008, AU125165, AA593983, BG254919, BG119566, BF791982, BG027717, BG117307, AU129485, AU128253, BF673138, BE410718, AW574556, AW500522, BG177695, BE797876, AI040633, BE770449, BE770431, BE736836, AI742708, BF978550, AI767520, AI742404, BE504225, BF111089, BE910115, AI681786, AU127139, BE545374, BF516249, AI908291, AU152319, BF056960, AW055010, AA126621, BE781576, AI333650, BE467323, AU144420, BF575212, AW996837, AA702137, AA206018, AA701911, AA126494, BE672572, BE737023, BF185788, BE789485, BF978567, AW602159, BF736100, BF820317, AI803067, N36960, AI088039, AI046313, BF132901, BF735867, BE707249, BF477588, AA024996, BF216802, AI912291, AI394065, AI805781, AA887081, AW029557, BF791743, BE217919, BF212498, BF736081, AI300960, AI376119, AA868717, AA121662, BF898020, AA526920, AI435569, AI075870, AA450145, AI436181, AA889549, AA548268, AW674271, AI636640, W58617, W58616, BF221495, AI686830, AW236479, BF244753, BE502359, AA255800, AI417171, AI916972, BE677826, BF035948, BF876879, BE694966, AA835638, AA447229, AA926978, AI208286, R95825, AA133188, AA609764, BF735994, AA558595, AA663764, R95776, T31467, BF475395, BF571998, AW401693, AA450088, BF736109, R83440, H54350, BF759908, AA972925, AW268985, AI041665, AW674569, BF029677, T06718, AA847564, AW996718, R19916, R67673, AI701761, BF977723, AA641688, AI707476, AW008306, AI749513, BE695062, AA332616, AI248393, BG260186, H53515, AA872693, H21971, AA732501, AI936949, AI093590, AA987830, AV654826, BF210714, AA872122, AA336781, AI379404, BF575890, AI039844, BF571552, H54140, AA025231, AA135593, N46277, N44961, R45136, AA361881, BF063891, Z43024, AA206243, AI570851, AA334590, BE148526, W60520, BF897472, AW674396, AA025992, AA885215, T19008, AW366176, BF910491, BF224308, BE731752, AW263468, AA171577, BE835030, BE080810, AW470374, R50245, Z39126, R66073, H53885, BF812753, AW361717, BF741506, W56208, BE409150, AI572255, AI123071, AA328659, AI003177, AA311578, R55217, R55214, AA630696, AI967952, AI560080, AI691108, AW998198, AA133216, AA135680, D19755, AA027062, AU127146, R34179, AI537428, BF821498, BF931991, AA101379, AA024952, T10703, AW129393, W21413, BE042729, AA235267, N93581,
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HOPKC80	878	105817 4	1 - 1490	15 - 1504	AI148864, BE673121, AW080794, BF036486, AW170514, AW006431, AI188759, AI832265, AW001480, AW471370, BF439239, AW168034, AW129649, AA769641, AW172714, BE867358, BG251850, BF516562, BE869511, AI598083, BE512714, BG250319, BG248190, BE740431, AA552439, AI587171, AI151456, AA151778, BF229956, AI684150, BE612973, AI339143, BE962486, AA621571, AI221080, AI279608, AW818139, BE868659, AI347951, AA512993, AI471439, AW243807, AA627704, AA973368, AI346482, AW952945, AI050852, BE742221, AA194025, AA410196, AI262321, BF333880, BF034695, AI829191, AA080606, AI344709, AA832492, AI984534, AA149786, AI189417, AI446633, BG251275, BG248564, BE280342, AI828290, AA580361, AI206376, AI924092, T98835, AW273245, AI300760, BE617957, AI271915, BF037659, AA133687, AI074095, AA659629, AW450853, W07258, BE872881, BE617516, BE613433, AI435798, AA976596, AA603691, AW292998, AI950654, AA875879, AI244806, N29871, AA948384, AA946812, AA862576, AI804146, AI982855, AA812251, N79741, AA888824, AI832503, AI133726, AA577501, AA297383, AI220826, BF824752, AA297386, BE963095, AA535896, AW571512, H95187, AA287234, W79526, AW190388, AA631290, AA908173, AA872504, R47933, AA496489, AI301669, AA427910, AA297379, R69472, AA284504, AW004671, AA746077, AA989485, T98916, BE074801, AA487702, AA297484, AA297153, AA464649, AA292774, AW170481, AI963760, W79558, AA394263, AI986058, AA903542, U46323, AW079683, AA487488, T98961, AI342966, AI982682, BF764771, AA287210, BF766656, BF749186, AA297527, AW845358, AA861541, AA297453, AA557937, AI133595, AA464548, AA553875, AW844388, AA486446, AI275661, AI719497, AA496440, AA481372, AI673125, AA565649, AA341051, C21003, BF801101, AA428283, BF512723, BE541671, BF761672, AA298491, AA421514, AI749779, AW007555, AA411012, AI273816, N57294, AW997921, BF765464, BF854746, AA133686, AA411355, AW841964, AW578145, BF743003, T53668, AJ011497, AX013131, AC003688, AF087825, AK026651, AP001726, AL137550, AB052191, I89947, AF069506, AL137480, I48978, AF159615, A70386, AF102578, A77033, A77035, A08910, A08909, AB047904, AK026408, AF130100, AF116631, AL050024, AF232009, X83544, AL049347, AL137459, AF177401, AF287051, AR038854, AF026816, AK026744, AK027164, A08913, AF116646, AX020124, U73682, AK025435, AF130099, AL110280, AX026824, AX026823, A58524, A58523, AL122110, AF130055, AF183393, Y14314, AL117435, AK026462, AK000614, AF116688, AK027096, AL080159, AL389935, AL035458, AL122050, AF225424, AF124728, AB047631, U80742, AL137548, Z97214, AL137539, AF087943, AK027173, AL117457, AR068753, AL137533, AR034821, AF130089, AK026534, AF113019, A07588, S36676, S83440, E02221, AK026464, X82434, Y16645, AF116609, AX019230, AL133113, U35846, AL389982, AF119899, Z82022, AL157431, I25049, AL353940, AF185576, AL080126,



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HODKM52	881	105830 5	1 - 1396	15 - 1410	<p>           BE675862, AW170492, AW615410, AI921484, AW778984, AI087865, BE504781, BE501303, AW664137, AI804599, AI761680, AW438623, AA564397, BG009559, AU148656, AU155012, AI473829, AI361784, AW082773, BF836752, AI804809, AW854134, AI126258, AW438975, AA053738, AI885468, AA219424, AA053218, R81717, AW951339, R81716, AA639617, R22820, R21206, BE246692, R81678, AW291929, AA829675, BG015493, H53703, AI336922, H53702, AW262475, R81677, AA496643, H43599, BF851318, BF886577, AA298439,         </p>

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HCONB89	882	105831 6	1 - 2428	15 - 2442	<p>           AU133486, AL531664, AL531663, AU133130, AU139013, AU141515, AU137644, AU137574, AU120996, AU136221, AV733714, AV715795, BG169581, AU127912, AV718227, BE783774, AU138115, AU137614, AU138855, BF339894, BG260734, BE891527, BG110089, BF966675, BG171662, BG170082, BE782211, AU135005, AL039207, AU134723, BE879634, BG165755, BE895932, BG167846, BF793180, AV726888, BE890841, BG169975, BF363417, AL048640, AU135846, BG105608, BF571125, AA527272, AW237266, BG115365, BE893637, BF978315, BG171140, AW237326, BF691407, AW027071, BF668607, AL037862, BF363427, BE075327, BF363421, BF669850, BF212851, AV713984, BF363418, BF363425, BF363422, BF691697, AI934569, BF966483, BF031324, BE564631, BG026587, AW089586, BF363423, AV730222, BE893556, BE968638, BF373083, BF363419, BF978056, AA220921, BF363414, BE567768, BF698264, BF589151, BF363412, AV730226, AA664155, AW303541, BF381806, BF701422, AA209458, AA220916, AU137868, AU154130, BF363426, AA476548, BF382463, BE968837, BE568406, BG259559, BF373099, BF248406, BG166999, BF363408, AW590404, BF351702, BF208023, AU146912, AW264406, BF373117, C18982, BF572761, BF678349, BF363411, BF363416, BF383061, BF570658, AA220924, AI422877, BF673996, BE895525, BF694282, AU153701, BF571324, AW949610, AW475045, AA218949, AA099110, BF243849, AI439160, BF363409, BF695133, AU130705, AU154514, AW338521, BF205387, T57743, AU152609, AV703087, BF693329, BF691506, N42342, BE644934, AW263656, AU157350, BF373107, AW182386, BF082041, AI096608, BF196144, BF673006, BE175494, AI151511, AI685369, BF373100, BF692184, BE176777, AA890477, BF373109, BF029724, BE167238, N20605, AI825979, AU157245, C05885, AU132632, AA219758, BF571942, AI909012, BF352283, AA604911, N22746, BF373119, AI951164, BF373102, BE972577, BF436503, AI343970, AV725554, AW592381, BF373074, AI492929, AA219755, BG000230, BF373112, H80206, BG007213, AA542825, C04448, W44600, BF571043, AW473983, BF373076, W70075, AI089376, T33636, AI571938, BF373118, N33364, AA534919, AA564819, AI096622, AI539176, BF373115, BF132073, BF373077, AI304768, AI680346, AA147100, AW167191, AA559033, AI346610, BG000231, AW967267, BE166365, AU150301, BF332576, AI281046, C05238, AW366325, BF218529, AI359688, AI356805, AW191042, AU155760, AW241669, AW237334, AA216693, AI809362, BF572538, BF373090, AI040424, AA209363, BF433307, AI884545, AA243961, AV716729, BF373116, AA169399, AA961204, BF373114, AU138282, AW630761, BF363413, BE168800, BE567852, AI695195, AI935419, BE168801, AI037863, AI311119, AL538044, AK025732, U47674, U70063, AF157500, AF220175, AB020867, AB020868, AF220173, AF220172, AX047063, AX033851, A84916, AK025211, AR070327, A62298, AR018138, AB028859, AJ132110,         </p>

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HSAB144	883	105841 3	1 - 1580	15 - 1594	AI193089, BF792867, BE275240, AU118203, AI193092, BE740143, BG036632, BE789430, AI826251, AI889985, AI336202, AW189142, AI870838, AI636431, AI889260, AW954406, AI811512, AI684172, AA243747, AI051342, BF058568, AU144830, AA434509, AA456259, AA243853, AI185725, AW662364, AA398605, AW316764, AA622033, AA454646, AI361613, AI123201, AA908199, AI080671, AI886632, AA429015, AA779359, AA232992, AA393244, AA457122, AI051169, AW630662, AI921539, BF446979, AA903191, BE856656, BE207591, AA622055, AA434412, AW390122, AW243723, AA527081, AA429166, AA864257, AI366506, AA125744, AU156496, AA233296, AA908751, T62568, AA535862, AA644355, AW291837, AA631667, AL513838, AA468584, AA678878, AW873708, AA782659, AI274736, BF675160, H16143, AI078706, AA099514, AI084292, BG152777, AA628017, T29605, T63190, H59746, AA125865, AA639563, AA479617, AA476989, AW605918,

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HBPND88	884	105843 2	1 - 1654	15 - 1668	BE615224, BE974796, AU132631, BG252686, BF036381, BE744679, BE740700, BE784065, BE741037, BE870583, BE783600, BE315141, AI857926, BG121384, AU128421, BE676244, AI096784, AI824089, BF129146, BG261122, AI566720, AI590852, A W577409, AI554235, AI709019, BG259942, BG256545, BE873242, AI951111, AA582008, AI024357, A W860933, A W574909, A W606350, AI024358, A W606339, BF212354, AI984018, AA641635, A W403912, AA548740, A V734560, BE616658, W44640, A W378698, A W008483, BE879355, A W517722, AA932007, W44591, AU154129, BG256978, A W958978, A W853916, AA421595, AI205862, AA573256, A W362690, BE206690, A W352349, A W362698, BE244720, AU150706, A W250842, AA642910, A W352318, BE156106, AI192294, AI160589, BE543557, A W362692, BE156105, AI187338, AI421712, AI299736, AA130878, AU150462, BE161073, AA535063, AI554396, W07326, BF678445, BE834400, N92107, BE019001, AA470770, AA130933, AA569838, AA988136, A W001943, BE735895, AU128155, AA460364, N53170, AA315063, A W772716, AI274117, BF244025, A W662589, A W602872, AI335615, A W406216, AI290108, AI139592, AI032261, AA838050, W01531, AI613128, N92121, AI131036, AI624226, A W352345, AA588808, AI763266, AI394387, A W954028, W46299, BF999420, T93259, N63681, BF724474, AA157266, AA460799, AI493937, BE177207, AA421600, AA843673, AA993704, T92924, AA565667, AI827053, BF769437, A W302875, A W438715, AA669520, AI818711, BE180900, AA052961, AA857793, AA130862, AI344838, AI720393, AA639727, AI434694, N68526, F28096, A W050927, BE812263, AI434916, AA159267, W05542, AA969820, AI922225, D58762, A W840594, AA084567, T94581, AI148091, AA305546, H66245, AA857514, AA158675, BE019836, BF357912, W05544, AI621340, T91658, AI873683, T67553, AA143760, AA182564, AI687946, T64449, BF808620, N30673, AI270475, A W580585, BE856075, AA626388, BE825341, BF351421, AI920997, N65988, N75821, W00721, A W352347, N23857, T49600, AA159379, T92931, AA528166, A W367629, F30131, AA115574, C17636, T30308, F33017, N95098, A W838238, H42817, AA653594, AA157178, AI345670, AA376203, BE717290, H51701, A W352304, AI265770, A W837093, N58607, T63698, H87042, BE717282, F34031, AI424416, BF350765, W70166, Z30199, N29321, AA317868, T35114, AA130918, H43818, A W838323, H78339, AA553823, D57286, C00048, AA477981, AI468232, BE720575, A W129064, BE836844, R72542, AA069318, BF771595, R64220, F35944, C17008, T63371, H64499, AA304026, AA862588, H70624, BF809711, BE767517, AA984867, A W956593, N94430, W70108, U90878, AF053367, U23769, T49599, T57830, T62020, T62211, T64525, T65719, T65791, T65908,

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HVVBI38	888	105847 5	1 - 2534	15 - 2548	AI038982, AU117056, AU138301, AV700249, AU139391, AV700023, A1742402, AW475039, AW152006, AV656228, AV652168, AV659216, AW512274, AV699449, AA425660, AV658378, AV719940, AI148538, AV696859, AV658729, AV683599, A1636337, BE349130, AV720627, AI924886, AV700643, AV718906, AI922771, AV699730, AV696271, AV699376, AA909379, AU143982, AW880514, BE971470, AW262765, AI814675, AA906235, AV695490, AU144025, W72541, AI086285, AI004263, AI686878, AV699569, AI128250, AI609938, AW514490, AV700045, AA777373, AI142452, AI093128, AV720368, AI352388, AV718583, AV691336, AI921912, AA022784, AI400079, AV719717, AI274261, AV719352, AU157555, AV658403, AV719770, AA573463, AI568119, AV699644, AI151165, AA427785, AL047363, BF906603, AI140357, W88788, AA703392, AI075816, AI190663, AA022691, AV719256, AA705945, AI934030, H29609, AV682135, AI301649, AV658213, H29698, BF221955, AU133483, N25878, AV682117, AV699169, AV700037, AV658253, AI436162,

HUKEJ46	889	105853 9	1 - 1602	15 - 1616	<p>AV681792, AV652174, AA193302, AI123540, BF737440, BE440015, AV646488, AV682851, AI250755, AI468763, AA775652, AA625237, AV651565, AV661442, N40593, AV646065, AA235873, BE150849, AA953249, AV651624, BE716146, R12676, AV681907, AA625190, N25887, AV657256, AV681624, AV651683, AV699750, W76166, N21984, AV699402, F26399, BF906560, AV657022, AV695918, AV689434, BE771618, AI453688, AI474554, AI244577, AV692341, AV661231, W86984, AV692824, AA236071, T54632, AV683549, AI540457, H60551, AV697911, AI476438, AV682232, AW195996, R20098, R29055, AV646109, AV681640, AV682261, T69649, F05314, T24039, AW838240, AV699409, T55384, F01572, AV649114, BF381356, N71188, T29352, AW999348, BF360523, N75352, AV682654, T69578, AU143815, AV684020, D58028, AW793392, AV682695, AV686746, D57906, AW021849, D57562, AV683459, AA194256, R29067, AW370885, AV681655, D56851, N40585, AV649088, AV652781, AV652780, AU117664, W86811, T54714, AV650989, AV688058, T55812, D56970, AV682102, T78003, AV648978, F35803, AW838241, AV695521, R08164, AI282339, AV661668, AV655565, BF909680, AV646586, W88909, AA669288, AV681962, AV694931, AV649636, AV682268, AV693574, R98133, AV682871, AV651978, BF754878, R16414, R01578, AV651638, AA872970, Y00716, M17517, AL049744, M65294, M65292, M65293, X56209, X56210, AL049741, X64877, and X86566.</p>
HUKEJ46	889	105853 9	1 - 1602	15 - 1616	<p>AW874247, AW874371, AA910550, BF434085, AA534811, AA983386, AU126641, BF757483, AI955581, BF755328, AI672883, AI586988, AA057145, T25016, AA974281, BF758100, AA887124, BF757704, AF081512, AL117348, AF081513, U81523, D83921, AJ000082, AJ000083, AF081507, AF081511, AF081504, AF081508, AF081506, AF081505, AF081510, and AF081509.</p>
HDTFT47	890	105858 8	1 - 795	15 - 809	<p>AI583173, AI473685, AI990953, AI680405, AW575343, AW951299, AI686920, AI279118, AI866763, AW273252, AW262003, AW083564, AW152078, BG236446, AA552648, BE876810, AV714299, AA903579, AA410919, BG230769, AW148673, AW575939, AV752077, AW392557, AI687988, BG235997, AA595644, AW406669, AW578510, AA576706, AI275169, AW950371, AI817519, AI627978, AW118007, AW170604, AI798555, AI287852, AI250410, AV733177, BF087348, AW082656, BF663857, AI439674, BG058620, AI956001, AW263617, AI381595, AI362475, AA224990, AI356365, AA961950, AI735409, AI733503, AA225038, AI829822, AI308923, AI04331, AI476133, AA576297, BG012427, AW406548, AW193241, BF128864, AI829843, BG176760, AI242627, AI537866, AI281599, BF737111, AI792212, AI572936, AI708910, AA458472, T28167, BG012426, BF843204, AI675832, AA871998, AA669055, BF924288, F26079, AW571413, BF844800, AI758642, AA954889, AI275200, AW189214, AI432217, AW169616, AW380025, AA442984, AA258595, AW795512, AA258624, AW407966, AW795511, AW391063, BG009113, BG149250, AW872490, BF737114, AW952175, BG012425, AA406361, AA406417,</p>

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HSSFS71	891	105859 6	1 - 500	15 - 514	BF309366, BE908964, BG030274, BF529310, BE906932, AL524107, BE899502, BF207110, AL524321, BF206454, BF314425, BE410188, BE387063, AL519836, AL515731, AW163247, BE207049, BE298771, BE313315, BF032587, AW163135, BF036749, AW966563, BE612399, AW966557, AW583813, BE386128, BF219994, BE910307, BE383711, BF701280, BE612672, AW583752, BE729998, BE385039, BE383977, C17895, BG030571, BE615838, BF037714, BE741510, AW247611, AI878890, BF343434, BE271979, AA459193, BE736474, BE384598, BE737190, BF348206, AI815391, AA136110, AA481716, BE391879, AI751884, BG254389, BE789300, T33372, BE744046, BF315514, M78227, AW002542, AA397605, BF308141, AL038945, AA045714, BE395307, AL519835, H38469, HI5232, T09997, AL524106, BF305982, T08625, BE909139, HI8019, AW160802, AW249946, T34483, AI932344, T78291, BF339698, AA121099, HI1912, H42617, AL524320, R90886, R85161, BF436417, F05361, AL536167, BE909379, BF847828, AI871752, BE669457, AI420118, BF448303, BE670936, AI887806, AI690297, C05027, AI307794, BE613278, R13703, R53244, AW732277, R54155, AW002869, R00683, AA485591, AA905687, BE620961, AW246212, R35117, BF772134, U36190, D42123, and DI7512.
HSDJH63	892	105861 2	1 - 1500	15 - 1514	AA741118, AW451491, AA252360, AW975618, AV718489, AW966053, AW978634, AW960553, D80253, D80188, AV722801, AV699447, D51423, AV724520, AW966531, AW966534, D58283, AV719557, D59859, AV699550, D59889, D80166, AW978661, D59619, D80210, D51799, D80240, AV719822, AW949645, AV718692, AW973307, AV719324, AW965177, AV720211, AV720731, AV723927, D80212, AW949656, D80227, D57483, AW949642, D80366, D80195, AW975621, AW959570, D80219, D81030, AV718440, D80391,

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HAHGD24	893	105862 2	1 - 1314	15 - 1328	AI935823, AW664925, AI805549, BE677483, BF109878, AW262864, AW300962, AW008229, AW167386, BF197239, AI857550, BE341458, AW572485, AW439371, AI805365, BE221220, AI554583, AI953162, BF032290, AW089913, AW952401, AI638571, AW675600, AW104806, AA434376, AI467884, AI673775, AI740642, AU149181, BG178196, AI680267, AI936312, AA430337, AI623857, AI184933, AI017079, AA664357, AI682694, W72320, AU154874, AA459289, AA428381, AI453624, AW167276, BE856447, AI026737, AI682932, BE220921, AA305589, W67797, AW139650, AW629990, AI536942, W67855, AI270292, AW175941, AI860034, AV655526, AW084313, AI364650, AI798284, AI886607, H28992, BE736139, AA430385, AW105495, AW080666, AI955970, AW016122, AA746169, AW576533, AI434880, AW262874, BG058348, AA427358, AI915650, BE873341, BG012721, AI339382, AI368547, BE909112, BG261315, H02204, R70310, BE046185, AI472500, AA614143, AW305152, BG056333, BE542123, AW613789, D29029, BE563107, AI914675, BF038706, AU133623, BE093293, AW975037, AW975965, AW971403, AW976024, AW975031, AW969791, Z99396, AW972845, BE737406, AW972292, AW975628, AW979204, AW979127, AW971975, AW974801, AW975002, AW969680, AW975032, AW976023, AW979002, AW877209, AW969643, AL119324, AW975952, AW969673, AL119457, AW974786, AW973717, AW975966, AW975971, AW975154, AW971326, AW971968, AW979238, AW975632, AW975025, AW973213, AW975981, AW975959, AW979176, AW975105, AW972680, AW975954, AW972296, AW971375, AW979106, AW979090, AW971378, AW972721, AW969885, AW973209, AW979098, AW973219, AW975930, AW975942, AW974823, AW970942, AW975027, AW974975, AW975254, AW979134, AW976982, AW975020, AW973750, AW969839, AW970936, AW971732, AW975019, AW971404, AW974785, AW970969, D45760, AW979169, AW974998, AW974964, AW970889, AW974658, AW974806, AW979294, AW969816, AW975876, AW969852, AW972684, AW976031, AW976511, AW979054, AW975028, AW975157, AW975022, AW972377, AW969637, AW970010, AW973812, AW972849, AW979076, AW976000, AW975692, AW972817, AW974802, AW973810, AW975585, AW975015, AW975649, AW974338, AL119399, AW979037, AW972867, AW973270, AW970113, AW972154, AW972884, AW973202, AW972695, AW973805, AW972719, AW976515, AW975976, AW979165, AW976510, AW971387, AW975975, AW973770, AW969884, AW972943, AW969759, AW979083, BF592735, AW970587, AW973650, AW979175, AW973986, AW979064, AW975938, AW975016, AW975138, AW975968, AW970921, AW969766, AW979116, AW975244, AW972806, AW973987, AW975910, AW975943, AW972689,

HTAEV85	894	105872 3	1 - 3249	15 - 3263	<p>AW972706, AW973164, AW970097, AW973824, AW971964, Z95636, AB011105, AL354836, AX046357, AR060234, AR066494, AJ279014, AR023813, A81671, AR064707, AJ251859, AX030435, AR069079, AR096545, AR054110, AB026436, AR096546, and AI582832.</p> <p>BE743925, BE743575, BE378832, BE562723, BE294053, BE394456, BF795479, BE388681, BF037525, AW607813, BE855547, BG235939, BE742475, BE378447, BE395537, BE379289, BE395340, AA399317, BE394992, BE350066, AW769658, BF033725, AV721020, BG057713, BE855481, BF941362, AW071828, AI672782, AI589288, AA635623, AI952009, AI553739, BF874688, AI524197, AI333826, AI809288, AI051257, AI423403, AW444587, AW404848, BE670760, AA814571, AI221743, AA291537, R58899, AI829285, AI418846, AA806818, BF953369, AW576501, AA084339, AA420642, AI953273, AA378569, AI356753, AI953017, T33610, AA350904, AA912707, R55664, AI024694, R90802, AA323883, AI372418, T33644, AI797874, H17555, AI339970, BE394689, AI985914, AA894697, AI350316, W22337, T16022, BE392352, AW085823, R88491, AA910596, AA815454, T33681, AA628149, H17451, R90803, AI627590, R55665, AI372419, AA326015, AA813547, AI356317, AA021487, BF920676, AA776204, AA953514, AI391714, AI887011, AA678937, BG152477, AA296883, T30918, T30945, AI372421, AI372420, T33218, T31286, AA350810, AA323752, T33219, T30906, AA782949, AI655347, AA493844, AA341681, T03448, AI024341, AI014310, AA398230, R43882, AI886803, R66432, AA805970, BF921111, AW518669, AL041008, Z42334, R52818, AA080905, AI475040, R19528, AA404699, AI815069, AA324503, BF929916, Z38828, T59381, T33680, AI919449, BF830756, AA325142, H50012, AA341603, BF947931, F01860, M78925, AA323277, BF924567, H15894, BF919142, AI015469, BF881778, AA323721, BF919066, BF918558, BF808617, BF847205, BE673584, AW378345, BF803820, AI740981, Z42668, AI918282, AA019030, BF089820, BE698940, Z42460, AA021656, R52857, AA988658, AI025132, BG150860, AA019306, AW952342, T06612, AI525653, D87465, and AC022392.</p> <p>BE779992, BG177813, BF765915, BE541570, AW971745, AV645385, AV681500, AV645390, AV645392, AV645393, AV681492, AV681509, AV681529, AV681512, AV681526, AV645336, AV645317, AV681507, AV681465, AV681525, AV681495, AV681505, AV681502, AV681504, AV681486, AV681483, AV681464, AV681462, AV681487, AV681506, AV681523, AV681519, AV681497, AV681471, AV681527, AV645404, AV645401, AV645332, AV645383, AV645377, AV645379, AV645389, AV645369, AV645380, AV645321, AV681501, AV645400, AV645353, AV681458, AV645334, AV681510, AV681528, AV681474, AV681514, AV645339, AV681477, AV681491, AV681472, AV681475, AV645358, AV681488, AV681513, BE613349, BE612945, BE622828, BE613070, BE614307, BE613136, BE614237, BE622931, BE621911, BE614230, BE622925, BE618811, BE622868, BE620742, AV681461, BE614451, AV645350, AV681531, BE620756, AV645344, AV681468, Z99396, AW804686, AW392670, AW861944, BE695785, U46346,</p>
HPMME44	895	105892 8	1 - 1505	15 - 1519	<p>BE779992, BG177813, BF765915, BE541570, AW971745, AV645385, AV681500, AV645390, AV645392, AV645393, AV681492, AV681509, AV681529, AV681512, AV681526, AV645336, AV645317, AV681507, AV681465, AV681525, AV681495, AV681505, AV681502, AV681504, AV681486, AV681483, AV681464, AV681462, AV681487, AV681506, AV681523, AV681519, AV681497, AV681471, AV681527, AV645404, AV645401, AV645332, AV645383, AV645377, AV645379, AV645389, AV645369, AV645380, AV645321, AV681501, AV645400, AV645353, AV681458, AV645334, AV681510, AV681528, AV681474, AV681514, AV645339, AV681477, AV681491, AV681472, AV681475, AV645358, AV681488, AV681513, BE613349, BE612945, BE622828, BE613070, BE614307, BE613136, BE614237, BE622931, BE621911, BE614230, BE622925, BE618811, BE622868, BE620742, AV681461, BE614451, AV645350, AV681531, BE620756, AV645344, AV681468, Z99396, AW804686, AW392670, AW861944, BE695785, U46346,</p>

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HOFMT75	899	105905 0	1 - 1485	15 - 1499	

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HARNB17	900	105908 5	1 - 1773	15 - 1787		AI652284, AV699731, AW772193, BE567359, AA948087, AW772160, AW779951, BF061442, AW275997, AW772178, BE501251, AI741087, AW468826, AW504488, BF694626, AA588762, AI650484, BE042660, AW021276, AI453254, AA983512, AV681483, AV681519, AV681502, AV681487, AV681526, AV681512, AV681462, AV681505, AV681465, AV681464, AV645390, AV645385, AV681529, AV681486, AV681525, AV681497, AV645393, AV681523, AV681495, AV681506, AV681509, AV645317, AV645336, AV681504, AI337944, W61302, AV681500, AV645392, AV681471, T93088, AV681507, AI590203, AV681513, AV681492, AI215418, R61302, AI214698, AI380725, AV645379, D62123, AV645377, AV645339, AV645353, AV645383, AV681528, AV681458, AV681477, BE892916, H15528, AV681474, AV681491, AV645389, AV681472, AV645332, H10464, AV681514, AW779966, AV681510, AV645321, AV645400, AV681527, AV645401, AV681501, AV645369, AV645404, AV645380, T93181, AV681475, AV645334, N42857, AI084484, BF185904, N40724, W65366, AV645358, AV681488, N35340, N21245, N27958, R44952, AA327161, N34449, C02871, AW971745, T93148, BF243907, H06275, H16402, AV681461, AA598831, BE614237, R81480, AA333901, BE613349, BE612945, BE622828, BE613070, BE614307, BE613136, BE622931, BE621911, BE614230, BE622925, BE618811, BE622868, BE929621, BE620742, BE614451, AV645350, BF034128, AL514919, AL514357, AL514691, AL514627, H15585, AV645344, AL119457, AL513597, AL513693, AL514087, AL513977, AL514791, AL513907, AL514473, BE620756, AL513553, AL515413, AL513865, AL119399, AL513643, AV681531, AL514543, AL514155, AL513999, AL514063, AL514085, AL513631, AL513755, AL514721, AL514793, BE889755, AL514015, AL513779, AL042544, AL513687, AL515191, AL513817, AL514579, AW877209, BE966443, BE966577, AL513723, AL514823, AL514409, AL514929, AL513951, AI453322, AL514093, AL513911, AL514867, BE966547, BG179099, AL514493, AL514101, BE964994, AI520785, AL513979, AL514657, AI282355, AI564719, AW117882, AL513781, AL514935, AL515235, AW167448, AL042382, AI862139, BG167249, BE966388, BF970652, AL515195, AI366900, AL514457, AL513789, BE963909, AI889376, AL514097, AL514071, AL513901, AL514219, AL514359, AL513985, AL079794, AI433157, BG179586, AV723772, AL514541, BE886686, AL514025, AL119511, BE962898, AL514983, AV681468, AA449768, AL513809, BE965891, AL514871, AI567351, AL514511,

HPDRG65	901	105910	1 - 423	15 - 437	AI699857, BG179250, AI436456, AI686258, AL040243, AL514909, AL514251, AL037081, AL514035, BE965014, AL079741, AL513713, AI476109, AL515019, AL514089, AL513719, AR080280, I25027, AR054109, I44515, I26928, I26930, I26927, I25041, AR069374, AR069375, I44516, AR035224, AR093392, AR091518, AX009487, AR093384, I85513, AR009152, AR009151, AR027099, A10617, AR028792, I05393, AR093383, A94046, A94054, A01324, A01323, AX030966, I63120, AX009486, AX029455, AR064322, AR064323, AR064320, AR064321, A94048, A94061, AX027785, AR038321, AR038307, A49045, I05430, AR034783, AR067733, A83642, A83643, AX035462, AX003194, A70359, A32110, AR083151, A92666, A92668, A92667, A92665, AX032758, AR019094, AR028793, AR028791, I49890, AR018924, AR018923, A48774, A48775, AR000006, AR015960, AR015961, A92081, AR000007, AR051652, A91752, AR091393, A92080, AX008865, AX008867, AX008868, A92077, A92078, A92079, AX030369, AX030368, AX033488, AX033489, AX033490, AX033474, AX033486, AX033487, AR069417, A91751, AR069413, AX036660, AX036661, A85308, AR068508, AR068510, AR068509, AR091571, AR085090, AR003585, I58322, I58323, AR068550, A23373, AR068551, I58669, A91754, AX026821, A63067, A51047, A63064, A63072, AR031375, A60213, AR068507, AR068506, AX046332, AR062871, AX001323, A44171, AX027908, AX027904, AX027906, A49700, A60207, A60208, AX001324, A58521, A29109, A32111, AX044426, AX044425, AX004550, I07209, I07249, A63954, AR031374, AX026820, AR051651, AR093385, AR019098, AR019096, AR019097, AR020199, AR020200, AR001287, AR020198, AR020197, AR029418, AR067734, AR067731, AR067732, AR029417, I89986, AX024906, AR085093, AL121656, I48979, AR051957, Y14971, AF090900, AR079032, I48978, AF130075, Y11587, S78214, AF130059, AL035458, AF113691, AL389982, AF116602, AL080060, AL050393, AF116691, AK000083, AB052191, E07108, AC004987, AF116644, AF130105, AL442082, AL137550, AL137523, AL353957, AF090934, AF119875, AX046603, L31396, L31397, I09121, AL133640, AF116639, AF118070, AL096744, AL359620, AF113690, AF097996, AK026583, AL050146, AX030435, AF113013, AJ242859, AL162006, AF110520, AF116631, AL157431, AK024538, AL133016, AF125949, AF078844, AF113694, I89947, AK026784, AL389939, AL122050, AP001666, AF116646, U62317, AF118064, AF130092, AL049314, AL049452, AL049430, AL122123, AF130087, X70685, AL442072, AP001346, AL353807, AK000212, AB049758, A08916, A08913, AL133606, U77594, AK025391, AF130082, S68736, AL117394, AF090901, AK025375, AF119865, AL110221, AK000323, and AX046357.
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HOVC146	905	105924 1	1 - 893	15 - 907		<p>AI870778, AI859156, AW269596, AA603479, AA156694, AA150491, BF725477, AI271347, W49762, AI885443, AI742302, AI224935, AI360465, AI199143, AI201443, AA541700, AI095726, AI381999, W19192, AA587340, AW052100, W49668, AI289243, AA437258, AI142995, AI190199, AI568809, BF439448, AI246305, AI864577, AA622233, BE645605, AA005075, AA813612, AI368619, AI025573, H52970, BE673070, H52694, W25322, AI940671, BF449060, BF447098, AI925090, AF302109, AR076110, and AC009123.</p>
HWLEP14	906	105939 4	1 - 1508	15 - 1522		<p>BE794642, BG248143, AI660567, BE733503, BE900379, BE903324, BE464528, AI690580, BE407909, AI368245, AA113289, BE732106, AA112513, BE720001, AI758472, AI801220, AW857217, AW301388, AI344839, AW268319, AW301461, AW796657, AI3444947, AW302967, AI345593, AW268166, AI345656, AW301448, BF718350, BE061124, BE735513, BF913479, AW858526, AW858525, AW861944, AL134524, AW877209, AW858455, AL119324, AW604723, AW372827, BF835478, AW577135, AB028645, AF117646, AF117647, AR066494, AX030435, AR069079, AJ279014, A81671, AR060234, AX046357, AB026436, AJ251859, AL133053, A85203, and AR054110.</p>
HTFNO73	907	105941 5	1 - 1055	15 - 1069		<p>BG027537, AI760770, AI807008, BE542138, BG121514, AI246426, AA758661, AI093284, AI623353, AA425589, AI953436, AA708524, BF108386, AI686282, AI985174, BF593056, BE292984, AV758196, BE675731, AA831229, BE832101, BE832100, BE832103</p>

HDABR73	908	105953 2	1 - 1682	15 - 1696	AA425390, BE811777, AI630066, BE900769, AA352240, BF528369, AA353182, AW302203, BE96471, AI525367, BF222250, BE646001, AA040074, AI263834, AW190054, BF222563, AC005037, AL158832, AL356244, AP000497, AC002433, and AC025765. AL536057, BE621676, BE741988, AL536058, AU119339, BE744459, BE378587, BE796157, BE378842, AI983859, AI188641, BE747937, BE742130, BF037284, BE740301, BE740930, BE563813, BE315119, BF796407, BF036145, BE563067, BE733406, AI819257, BE793554, BE744012, BE747573, BE271659, BE273401, BE898557, BE741463, BE741182, BE744371, BE747343, BE740836, BE743761, BE250007, BE740615, BE743726, BE741624, BE612835, AU118578, BE745593, BF036439, BE909331, BE743960, BE563771, BE612827, BE617787, BE741187, BE898606, BF034541, BE736299, AU135570, AW190372, BE906395, BE613272, BE741701, AW024509, AI982697, BE515259, BE906409, BE744503, BF036857, BE744695, BF038326, BE741281, BE515348, BE873534, BG116590, BF036488, BE745744, BE740015, BE612664, BE740873, BF038719, BE379468, BE272232, BE612831, BF035437, BE744260, BE271379, BF035175, BE394400, BE563064, BE315354, BE906753, BE899472, BE378543, AI149550, BE872877, BF035117, BE746985, AA843413, BE906163, BF036589, BF034503, AW583110, BE395267, BE910084, BE515311, BE395315, BE019905, BE271729, BE392414, BE617294, AW276453, BE869007, AW276419, BE515206, BE742967, AI022639, BE870918, BE311817, BE742113, BE867683, AI888932, BF853014, BE315347, BF038858, BF792372, AA779427, BE392271, AW438754, AW629644, BE869063, AI627588, BE899214, BF033988, BG178683, AI186468, BE621326, AI925167, AW168073, AI689311, BE3900431, AW275877, BE745272, BE293876, AI684241, AI523546, AI199013, AI979261, BE393953, BF035502, AI140251, BE044623, AI473805, BE392821, BE621075, BE963030, AW167490, BF035223, BE393111, AI684174, BE393141, BE742280, BG106822, BE392012, BF941529, BF038912, AW613339, BE744103, BE514842, BE742664, BG255080, BE315034, BE390824, BE899489, BE613027, BE395645, AL038941, BF854473, AU145103, AA837517, BF116137, AI916679, BF038872, AI679059, AI921137, BE281519, BF032879, AW674573, BE512771, BE743687, AW510505, AI955305, AW131534, AW029106, AA915950, BG180201, AW629761, AI983048, AA866041, AW769050, BE741547, BF038553, AW263798, BE314998, AW088348, AW028733, AI034115, BE379326, AA854434, BE208252, BE736344, BE562631, BF435908, BE613182, AI003490, AW303937, BE293712, AI204099, BE908261, BE315110, AA581854, AA143705, BF036530, AW264648, BF436324, AW105631, AW275263, AW303959, BE742264, AA745970, BE315007, BE378339, BE746207, BF038753, BE389050, AI312907, BG001068, AW058613, BE536750, AW955498, N30199, BE908239, BE873618, AI365005, BF814644, AA845390, BE899025, BF132343, BE562447, BE395651, BE613391, BF804795, AI624991, AW613278, BE834314, BE315002, AB006534, U78095, AF027205, AX014903, AC011479, AR069031, Z36849, AL110280, AF231020, A23630, A65341, E03348, E03349, AK026533, AF090896, AK000753, AF067728, AX042059, AF217982, E12747, AF032666,
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HOGAJ24	909	105962 6	1 - 2068	15 - 2082	BE379134, AI888030, BF128625, BE315492, BE745894, BE466278, BE392102, BF309700, BF090313, AI138758, BF035128, BF947100, BE673650, AW029058, AL119602, BE745470, H14434, BE843655, AA349626, AI372719, AA324193, AW136531, AI492113, AA349625, BF942915, AA324192, H14384, AA323454, BF308236, AW503953, AI372720, BE701341, AA326695, BF928744, AW899391, BF091837, BF129284, BF033438, AI372718, AA019306, AA021656, R52857, BE763486, D87465, AJ001453, AJ278999, and AC022392.
HTJMV05	910	105969 2	1 - 1343	15 - 1357	AL533338, AL533177, BF344698, AI972455, AI474115, AI591062, AI818584, AI201413, AI273898, BG057719, AW518049, AA603336, AV724284, AW473681, AI970058, AI744020, AW950521, AI952552, AV723567, AA732056, BF663206, AI400103, AI675467, AA759046, AI203142, BG106770, AW589861, AI393848, AA291187, AI359478, AI359539, BF871968, AI634408, AA922462, AI890058, BF478007, BF088645, AA641809, AW294543, T28368, AA357035, AI657195, AA356558, BE076268, AA533579, AA284105, AA641772, AL532106, AW849966, L11329, U23853, and AR075978.
HOOIL70	911	105971 0	1 - 2301	15 - 2315	BF976003, BG255591, BE737081, BF128847, BE869747, AI669358, AW574500, AW337117, AI624261, BG236470, AI802759, AW274480, BE872836, BE280264, AI436622, AA777455, AI241448, BE793202, AI214047, AW402432, AA574166, AU154023, BF969067, BE162510, BE901499, BE904079, AI382223, AA877757, AI379692, AI088105, AI079670, AW001896, AI241452, BE280812, BF896455, AA534306, AI274205, AV647149, AA679657, BG231909, AI439904, AA282664, AI656544, AW385182, AI140749, AI372965, AW073615, BF185370, AW402786, BF868702, AI192703, AA482536, AV647081, AW401577, AW406237, AV696093, AA910515, BF851252, AA025527, BF847410, AW073431, N91809, AI797822, D58678, AI491753, AA807121, AA005102, AA594367, AI937299, AA312612, BF868707, AW574667, BF893710, AW408249, AI652285, BF884407, AA641459, BE243024, BE280241, BG059397, AA975471, AI357183, BF662959, AA778878, AW272935, W31243, BF662936, AI247758, AI962576, AI040521, AW372928, AA364415, AA634861, AI570459, T63947, BE242245, BF214009, BF870464, AW518023, BF893670, AA337402, BF762332, AA971623, AW950683, BE513081, BF900388, AI241176, AA806951, BF351083, T28667, AA005103, AA426411, BE697295, AA937746, BE161991, AI907772, AA384860, AA721435, BE832442, T63326, AI123167, BE935009, R15726, BF378229, BF884412, BE832421, AA563915,

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HUNAE87	912	105974 3	1 - 943	15 - 957	BF205763, BE542536, AW602105, AW501478, BE279707, BF734085, AW845227, BE926163, BE241826, BF989806, AI751428, BE242794, AV656636, AA299026, AV656609, BG002474, BF851533, BE383929, BF812975, AL040310, BE185148, BE169980, H57695, T05030, BF084353, AW732695, BF752738, AI703311, BF086412, BE618406, BF814907, AF062336, AF062317, AF062319, AF062320, AF062321, AF062322, AF062325, AF062327, AF062328, AF062330, AF062331, AF062334, AF062339, AF062341, AF062332, AF062332, AF062335, AF062337, AF062338, AF062324, AF062329, AF062343, AB002382, Z17804, AF062333, AF062318, AF062344, AF062326, AF062342, and AF062340.
HTPHO01	913	105976 4	1 - 1068	15 - 1082	BG031300, AU121404, BE745068, AW340638, BF672040, AI830575, BE296082, BF104795, BF205385, AI970997, BF436314, BF436678, AI375239, BF033148, AI955746, W52045, AA452348, AA505698, AA452125, AW403701, BE250987, AI742513, AI199971, AI338181, AI338219, AA926692, AA938400, AA644138, AW402946, AI344126, AI675706, AI300753, AI186703, AI183773, AA156689, BF194804, AA884026, AW938860, W60021, W38892, N95054, AI148098, H01993, AA954291, W44927, BF106195, AA805553, AI751818, AW170013, W39574, AW150567, AI864148, AA280408, AI494112, H04586, R27968, AI193848, AI078102, AI936538, H39712, AI198333, AA194406, AA094826, H02089, BF694536, AA363376, AW959394, AA642334, R28221, T94680, AI373118, AA280407, AA994085, AI352072, AW973632, H13826, AI818830, AA918331, AA554306, AI093632, AI276589, AA447655, AI273430, N30561, H28693, AA134664, AI278504, AW341382, H13182, AI934888, W24049, AW858525, AW861944, AW861914, AW858490, AW858455, AI142134, AW971368, H13867, AW972879, AI134524, AW971207, AW975661, AW970561, AW973817, AW971122, AW975696, AW973756, AW971308, AW979267, AW974137, AW974982, AW975026, AW973721, AW971175, AW970626, AW972839, AW973648, AW975061, AW971296, AW971145, AW979309, AW974123, AW979310, AW971279, AW971339, AW972409, AW975389, AW975999, AW979317, AW971107, AW971992,



HDPWK69	914	105978 4	1 - 483	15 - 497	<p>AW974677, AW974948, AW979312, AW973725, AW974909, AW974885, AW971271, AW972428, AW974896, AW970011, AW975424, AW975563, AW973375, AW979124, AW979222, AW971739, AW972926, AW969869, AW971956, AW971991, AW975887, AW971423, AW972833, AW973739, AW974084, AW971343, AW972743, AW974146, AW970579, AW973783, AW979111, AW971399, AW979122, AW970615, AW970618, AW973265, AW969909, AW972311, AW975852, AW971416, AW971066, AW970597, AW975560, AW970621, AW975862, AW972907, AW971328, AW972148, AW972712, AW976011, AW971972, AW970576, AW971128, AW973143, AW973247, AW974097, AW971315, AW970886, AW976043, AW974873, AW971008, AW972899, AW975383, AW972376, AW979149, AW971383, AW972908, AW976992, AW969851, AW975672, AW971265, AW971300, AW970925, AW971426, AW975222, AW974696, AW969953, AW974706, AW975674, AW975589, AW971033, AW973370, AW974369, AW979112, AW970841, AW973657, AW974661, AW973975, AW974408, AW970541, AW974278, AW970113, AW971313, AW975372, AW972682, AW972932, AW973813, AW974645, AW970563, AW979234, AW972319, AK022176, AF169284, AF216709, AR076513, AC034187, AR066494, AJ276253, AJ276255, AJ276256, A93923, AR096545, D17247, A93916, AJ238010, AJ276251, AR064707, AJ276257, A93931, AJ276254, and AR023813.</p> <p>BE336913, BE735084, BG177051, BG115809, AI201776, AL514548, AI525640, BF205941, BE903276, BE929876, BE312055, BE261573, BF911153, BF911226, BF911152, BE295053, AW411495, BF308316, AA738028, AW403566, AU141467, AU077092, BF683650, BE899583, BE397737, BF982913, BF206934, AW411017, AW245548, AW248320, AW245816, BF987515, AI750480, BF684995, BE614142, BF987508, BE019048, BF850976, W58719, AW246237, BE397252, BE269186, BE267606, BE315417, BE267874, BE513877, BE560286, BE731247, BE797425, BF954541, BE389823, BE391286, BE392270, BF303974, AL515420, BE733007, BE869407, T35777, BE045345, BF528622, BE271945, BE741426, BF987526, H49449, AA581199, BF975243, AL534668, BG163503, BF954542, AW249085, AI750467, BF246555, BE785416, BG025673, BE302637, AL518566, Z44026, BG115160, BE302638, BE410267, BE250546, BG163434, BE871158, AA314558, BE265447, BG251036, BE777968, BE741047, BE873520, BE300463, BE390220, BE277785, BE389706, BE548855, BE407189, BE275582, BE276320, BE274389, BE275212, BE274887, BE796598, BE263988, AW246104, AA852697, AW732316, T35602, BE902471, BE900774, BE733887, AA481899, BF911224, BE892347, BE407783, AL109827, and Z22466.</p> <p>AL516768, AL518528, AL516767, AU124034, AL518529, AI038260, AU132739, AU124236, BG168689, AU120266, BG027837, BF965774, BE882118, BE547389, BG027828, BE779679, BF062086, AI126792, AI884785, BE296227, BG250804, AW957623, BE299015, BE785170, AI917458, BG116309, BG110174, AW516673, AI689761, AW732512, BF218050, AA313688, BG108532, BE503915, AU154211, N64029, BF304720, AW409753, AA629662, BG164674,</p>
HPCOK03	915	105984 9	1 - 2056	15 - 2070	

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HVVBP14	916	105985 2	1 - 2041	15 - 2055	AI458677, BG113558, BG121106, BG171686, AW994500, AV702133, BG117173, BG115089, BG111087, BF343716, BF828843, BF829681, BF337845, BG115532, BE787714, AW606596, AU132146, AU142931, BE537132, BG118340, BF826024, AW069171, AI908290, BG001540, BF574744, BF345139, AI817760, BF680782, AV746169, BF217297, BG164687, AI457607, BF828614, AW384091, BF112151, BE563366, BF540810, AW157443, BF828601, AW157182, BF185879, AV746201, BF816368, BF106026, BF347142, AU117794, AV746339, BF790933, AW026652, BF674283, BF508654, AW604674, BF827085, AW068896, AW172774, AA573787, AW606615, BF525732, BF446072, AI015329, BF826141, AI741571, AV746329, AW261860, AI808809, BE180528, AI809263, AW803964, AI589854, BE621130, AI246006, BF383145, AI638864, BF589354, AI582167, AW995360, BE621552, AV746237, AW117301, AW384072, AW873335, AA191422, AW273374, BE549656, BE504212, BF826112, AI033917, BF930719, AI018004, AW168821, BF816362, BF130935, AI366144, W07385, AW339114, BF223629, BE041847, AW274618, AA480828, AW861537, BF435125, AI689934, BF826149, AI142724, BF245347, BE810306, BE742456, AI672739, BF431193, BF826134, AA041259, BF340103, AA410869, BF814554, AL538338, AI922909, AA114081, BF195307, AU138600, BF816413, BF680922, BF195593, AU137360, AU136469, BE645054, AL527496, AW052081, AW857695, BF112077, C17509, AA209279, AI379051, BF919850, AA446122, BF573765, BE856614, BF229165, AL524734, AA429980, AI086883, AA446430, BE538804, AI936200, AI084992, AA639227, BF084673, AI242682, AU135551, AI081085, BG179108, AA507856, AA976105, AI859258, BF056523, BF247734, AU136580, AI281062, AA933012, AA658931, AW189095, N48334, AA774240, AI299111, BE272095, BG118976, R67390, H04035, BF826806, AV745246, AI368091, AA709018, AA910766, BE877841, BE545689, BF209170, W26396, AI097285, AI681347, AW951203, AW132085, AA181643, AW369852, BF825868,

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HOOJC15	917	105996 7	1 - 1499	15 - 1513	N23036, AW069188, AA312842, BE837689, N28698, AI859142, AU159346, AV714891, AU153662, BE675292, AW965809, AU150988, AW605548, BE965774, AA494486, BF310138, AI024942, AA587968, BF694016, BF111207, AA663127, AI143246, BF891442, AI093098, AI963205, BF969769, BG249168, BE732149, BF031298, AA305846, BF684799, AL521968, W04430, BG028071, W56324, BE732105, AA573252, AW675226, BF345673, AI469839, W56244, AA470048, AA502907, AI674900, AI823838, AA536108, AW337905, N79195, AI378060, BE208643, BE208461, BF973626, C02367, AI085703, BE537520, AA836367, AA416876, AI689700, AW376741, AW505291, BF570805, BF341027, AW363086, BF221634, AA442519, AI371309, BF980019, AA642512, AI954659, BE837802, AA399550, AV652925, BE264023, BE266231, BF754737, AA935807, AW976875, BG027843, BF806676, AW578946, AL515221, AI479754, BF857849, BF806728, AI654305, BE738121, AW970913, BE158832, AA837000, AA744021, BE241611, BE843184, H73550, BE158779, AI792377, AV720699, AV729885, R97239, AL120004, BE314980, BE740092, BE744793, BF991592, BE742591, AA318894, AA516193, AA279385, AA515733, AW897556, BF772490, AI805439, BF771419, BF916935, BF770580, AA209208, AA533054, BF916919, AA669560, T26476, AW819524, AI343169, AA445908, AA070456, H94751, AU118265, AI697425, AK022952, AL117639, AK027026, AK022576, AK023227, AK021695, AF132856, AF068289, AL157877, AL137707, AL139008, AB040962, AC005993, AL157384, AL355916, AC004975, AL034379, AL158832, AC013429, U62317, AC005730, AK027217, AC020908, AC006536, AL138733, AP000048, AC005081, AC009032, AC004626, AC005821, AC005383, U91321, AC003048, AL109758, AL031274, AC005829, AF045555, AC008745, AL121997, AC003101, AC020913, Z84466, AC002477, AL132773, AL022316, AC010422, AL133174, AL118505,

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HODFG47	918	105996 9	1 - 1250	15 - 1264	BF345673, BE732149, BF684799, BE732105, BF973626, AL521968, AA922195, AW873081, BG249168, AW194609, BF310138, AW197591, BF341027, BE537520, AI185740, AW965809, BF694016, AI149726, AI800098, AA305846, BF341904, AA640513, AW675226, AA935807, BG117398, AA312842, BF341862, AA713593, AW449858, AA470048, BE876387, AA704143, BF110474, AI628310, AA176983, AA737820, AL521967, AA397353, AA702002, AA983700, AA975245, AA863436, AA983708, BF570805, AI471343, AA416876, AW965126, AI282285, AI913509, BE081596, AW376741, T32544, AW505291, AA046362, AW363086, AA724214, AI610316, R84594, AA714758, AI915421, N47199, BE081889, AI670874, AA442519, BE266231, AI954659, DI9789, AA773604, BE264023, BE082127, AL538302, BF204069, AI479754, AI678909, F30845, BE774943, N28698, AF132856, AF068289, AL157877, AB040962, AL139008, and AL137707.
HBIPC05	919	106013 7	1 - 1003	15 - 1017	AL537138, AL537137, AJ403115, BE464560, AI049667, AI921266, AI476756, and AI680380.
HOPJ32	920	106019 3	1 - 991	15 - 1005	BE559626, AA648932, AA742693, BF196375, AI243725, AI417050, BG107805, AA877170, AI400330, BG055356, AI688228, AI688239, AA682467, AA918714, AI033070, AA701935, AI250796, AW264399, AI243869, AA705038, AA743538, AA227787, AI735761, AI160787, AI807505, AI376819, AI078674, AW043673, N33011, AI247552, AA860111, W93664, AA284309, AW515896, AI351848, AA757540, AA677285, AA461254, AI417138, AA625139, BE908226, BF570801, AI765604, AW949994, AW949993, AA907925, AI219692, BF030135, AI699352, BG177209, AA731398, BE788620, AU122917, AA807487, AA723789, AI333471, AA946979, AA015678, AA767126, AW410993, AI198618, AW016005, AV720207, AI365028, AA975429, AA677912, AI167442, T95667, BF132906, AA918597, T27775, H49351,

HNOBN20	921	106038 2	1 - 1545	15 - 1559	AI351115, AA017653, H59259, F35676, AA227786, BF912603, BF908138, BF571619, AI022007, R92112, BF196370, BF196376, BF795585, AI424112, AA856682, BF218248, AV763234, AV712432, F35677, AA372488, BF092387, AW381917, BF094621, BF217712, BF094671, AA374937, W93663, AW580421, AA345343, BF092528, AC004948, and L07493. N47880, BF334493, AW469956, AW363838, and AC004671.
HOCPX74	922	106039 1	1 - 1870	15 - 1884	AI524597, AL519648, AL530831, AL519649, BE734258, BF347653, BE871077, BG104745, BF348323, BF343876, BG104449, BE869842, BE888412, BE273552, BE780351, AV690410, AW170543, BE314522, BF795175, BF663039, BF375780, BE149568, BF913222, AW603794, AW604899, AW001348, BE297766, BE265374, AI335452, AI925444, BG164669, AL524596, BF528067, BF975942, BE797960, AI608844, AL536780, AI817215, AV685897, BG029777, AI591352, BG178695, AI811673, AA853941, BE157959, AI805743, BG011563, AV729006, AA565014, AW604898, AW973191, AI345340, BG258971, BF445253, AA279139, BF352395, AI832033, AW604905, AI366971, AW152126, AA923303, AI366962, AI382206, AA434149, AI934699, AW362579, AI571300, BF330697, AW604908, AI628955, AI334950, AI201993, BE565222, BE275563, AV692860, AI913195, AW190506, AI553809, BE263940, BE263361, AA478024, AI766662, AI860471, AI435257, AV706788, AW274219, BE567651, BE267179, BE675074, AI340530, AA733167, AW073037, BF914370, AW609796, AA825666, R84539, AI581149, BF594915, AI949327, BF330696, AW104823, AI675988, AI393781, AI359747, AA292729, AW089578, AW301969, AV749661, AA434430, AA057489, AI628311, AL041758, BG058748, BF832690, AA485730, AA936549, AI969209, BF982895, AI377017, AI923566, C06478, BF887827, BF793586, AA459081, AA458890, AA564803, BE259264, BF887828, AI914921, W79182, AA057212, AI004361, W74428, AI349785, BF765630, AI687123, BF737458, AW966062, BE063151, AI359732, AI689065, AI167359, AI626037, AI334448, AA434203, AI288378, AA652404, AW956458, AI345581, AA293168, AI348864, AI349414, BF756936, AA740650, AA026165, AI343129, N95348, W25257, BE732289, AI376726, N68518, BE063152, W79074, AA810877, AV746022, AW071400, BF762446, AI312239, AI313347, BF895302, W00714, AI214147, AI457337, AI349751, R87384, AI018718, AA588542, T11665, AA953579, BF847574, AA310626, BF817632, AI085839, AW439522, AA429455, AA278412, AI042587, AA604993, AI434894, AA484907, AW272911, AA428689, AI254351, AI207020, BF829151, AA552581, AV696837, AA053182, AA580658, AI340724, AI349182, R85670, AW873126, AV657729, AI954961, AA573103, Z40757, AI090867, AI301832, BF876341, AI088716, AV696392, AV684547, R88960, AV745986, F34685, AW768933, BF346694, AI338123, AI811398, R89629, BE150220, BF829538, Z46084, AV749887, AA079521, AA434271, AA349776, BE089845, T32439, AI362261, AI571605, AI207037, AA079569, AA293308, T51217, AI907977, BF851263, BF526982, AI369567, AW576248, AW188668, BF894716, Z43547, AW973210, H27199, BE062964,

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HTEPP27	923	106041 5	1 - 720	15 - 734	BE906519, BF590795, AW166407, AA425184, N75682, BE549827, AI990649, AV690903, AV749752, AI768535, AA504168, D45332, R20997, N51177, Z43298, AW969016, AW207406, AA156619, AI024330, R81435, BF798183, AI476407, AW628995, BF093913, AK026377, and AC079610.
HLXAJ79	924	106049 5	1 - 854	15 - 868	BE877313, AV707414, BE877897, BE898244, AI207423, BE880171, BE879486, AV712023, BE874183, AV646609, BE877724, BE877360, AV713937, AV646653, BE876255, AV646649, AV646504, AV728530, AV725312, AV704989, AV706544, AV708364, AV710865, BE876145, AV707576, BE875452, AV704821, BE876209, BE879161, AV717895, BE876129, AV704136, AV710411, AI653760, AV728726, AV727727, AV646639, AV704410, AV705900, AV646554, AL037048, AV646616, AV702289, AA669077, BE876191, BE874129, AV704743, AV716924, BE881017, AI557254, AL048429, BE877534, AI065079, AI133420, AI133314, BE877089, BE873910, BE878189, BE878144, BE874933, BE875679, AI064797, AV646560, BE879920, BE879482, BE877490, BE881406, BE878843, BE873856, BE881677, AV704545, AV709377, AV716245, AV723801, BE876227, AV701103, BE880558, BE880965, BE880379, BE892986, AV715880, BE892997, BE881087, AV702097, BE880616, AV715527, BE881605, AI884494, BE879931, AV701289, AI133218, AA081407, AV723748, BE877550, BE875048, AI061660, AV654563, BE876526, AV691015, AV716518, AV693793, BE876857, AV693806, AV723085, AV702987, AV725077, BE875611, BE875017, BE879660, BE898249, BE880104, BE881578, AA886596, AW188463, AV686634, AV716707, BE874992, BE877148, AV725697, BE874412, AV721842, BE883115, BE868953, BE872765, BE869861, BE867046, BE868935, BE877853, BE876076, BE874887, AV757464, BE872576, BE867519, BE866703, BE874381, AV729458, BE870019, AI888487, BE867152, BE878535, BE876950, BE871969, AI064695, AV702362, BE877908, BE878111, BE873978, BE869555, BE867007, AL037870, AV703548, AV686024, AI459473, BE868476, AV706391, BE876777, BE876151, BE878325, BE879105, BE881405, BE874441, BE875672, BE876996, BE876184, BE881324, BE877404, BE872183, AV701547, BE878096, BE876772, BE892671, BE876933, BE880480, AA659265, AV724031, AA487595, BE895696, BE876529, BE893859, BE867946, BE873745, BE878628, BE877533, BE876273, BE874818, BE878625, BE875010, BE877218, AV715658, AA594949, BE880710, BE880906, BE875274, BE898642, BE869867, AV761230, AI924211, AV719659, AV724182,

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HCOOQ11	925	106065 6	1 - 875	15 - 889	AW007037, AI884511, AA886989, AW193931, AI817713, AI249758, AA865294, AI951033, AI264240, BE613246, BF312076, AL038486, BG112904, BE744581, AI951027, AW577113, BG236451, AL519420, AW188640, BF312870, AA996176, AI991217, AU148172, BF344181, AA731851, AA741112, BE046060, AA527051, N53946, AI827285, BE868637, AL514001, BE670726, AA596053, N40254, AA579782, AU158854, AI078704, AA631758, AW959940, AA011629, AI275213, BE042693, AI435452, AA873027, AI206083, AI143622, AI811645, AA411414, AI887412, AA291435, AA808109, N23620, AA570435, AW845068, AA135399, AI066472, AW513124, AA682204, N35737, AI344485, BF514798, BF980552, T56288, AW662379, AA401883, AA156540, AA934515, N32127, AW338269, R83770, W63671, AA676312, R73855, AI056012, AI193778, H81756, W00608, AI569186, BE221170, AA411416, AW025247, BF851746, W61083, AA614043, AI888903, AA502388, AI628321, AA904082, AA506667, AA827494, AI002292, AA740494, AI061269, AI926417, BF946323, AA877480, AW519260, H82073, AA961238, Z41638, AI268112, N23619, BE407605, T52457, AI569627, AI597779, AA888216, AA996210, BE301554, BF197866, AI636718, AA230148, AA157698, AA045288, N68931, AI241476, AI520807, N30126, BE813412, AA290634, R02156, R66915, AA513443, AA513637, BF771899, BF982556, BE963002, R27899, R73856, AA007540, AA876184, F21046, R33645, BG115606, H77609, AW793338, AI589492, AA229874, BF990846, AA291041, AA502601, AI368907, T54493, F04593, AA807759, AW449509, R42729, BF206077, BE004381, BG122255, AW780372, BF512161, H84829, T54441, AI971366, T79762, R27807, AA078930, AA782709, AA228443, BF980481, AI538648, AA228276, AA011628, N24545, BE703483, BF835233, H85291, N33993, AA953353, AA135953, BF434060, AI371269, BF738422, N56794, AI940121, AA844546, AA007539, R83623, AA345305, AI423659, AA886375, AA362021, AA360790, BE706771, AI368904, AI940130, AI345688, AW022682, AW161156, AL119828, AI521799, R36363, AW080402, BG033199, AI868204, AI567582, AW827289, AL079963, AI559632, BF525883, BF525838, AA287231, BF338002, BF885081, AI446538, AW673679, BF982265, AW834302, AL514879, BF061283, AI500061, BE785868, BF680131, AI440263, BE964614, AV723953, AW827206, BF968666, BE965621, BG164558, AV712672, AI249497, BG121959, BF856052,

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HVVBK70	934	106125 8	1 - 1629	15 - 1643	BE746661, BG117435, BG252083, BE877320, AI806227, AA178948, AI016759, AI653545, AW573210, AA927605, AA631986, AW592037, AA531275, AI018243, AI660515, AI831705, AA568173, AI984148, AI581183, N98668, BE379164, BE271705, BE746583, BE394807, BE272756, W88624, BE887776, BE393523, AA004850, AA134872, N94263, AA426075, AA045761, BF435518, AW376913, AI673780, AA719164, AI345684, BE047692, AI921655, F36014, N69655, W88625, AW370783, AA004659, AL040320, BE882506, AA199851, AA045760, AW378878, AI682887, BE062798, AW370763, BE297968, AA634581, F32535, AA583661, AA025749, HI3681, AA405861, R97397, AA134873, BE296854, AA046099, BE733701, AI829163, D58431, BE743785, AI863398, F24760, AW009286, AI440272, AW885403, AI940469, BF590167, AI688326, AW935165, Z24923, F22372, BF742972, BE879452, F33891, BF826768, BF856608, AA045994, BE621382, BE733458, AI832776, AI357679, AA043984, F19411, BF856598, BF857638, BE311732, HI3728, R97441, BF856594, R24161, N66145, BF856596, R49671, BF856586, BF856597, AW601232, F36904, AA025901, BF826760, BE407674, BE278843, R24175, H01735, BF857636, AW379124, AW379128, H00992, AW104282, T61947, AW379135, BE730674, BF105945, BF087158, Z24932, AW601233, AI640673, AA044038, F35309, BE538525, AW379126, BG118318, AW362195, BF835188, AV706662, AA128148, T59326, AW379134, AA178993, AW853877, AW378910, BF857639, BG111319, AA618396, R26642, AW850722, BF510012, AI690017, F31129, AW850563, AI689995, BE301917, F30217, AW379136, AW418766, AW378905, F34755, F22842, F00363, AA345998, BG013553, BE065767, AA034504, AW805008, AA936926, BF773367, AW804639, AI656281, BE965287, AI868108, BE277985, AW372049, AA126983, AW381206, BF351128, T62177, F37877, BF810848, AI905007, BF857640, BF773378, AA223532, AA223444, BE618269, C18341, BF914199, AJ000414, AC008760, AC020954, AB006914, L40379, AR032003, and F22843.
HVVBK82	935	106133 2	1 - 946	15 - 960	AV758998, AW104667, BG111699, BF984753, BF981305, BG036253, AI660239, BG181014, AW192662, BF981880, BE549196, BE541171, AV734020, BE220777, BE748099, BE538578,

HWLLG38	936	106138 8	1 - 3477	15 - 3491	<p>BE675535, BG034157, BE743707, BE781960, BF348443, AV761028, BF679820, AA149387, AW675599, BF978927, BF215587, AW515451, BF032015, BF670435, AA847574, BE857449, BE777637, BF132730, BF239050, AA135732, BF748644, BG168280, BF211380, AI300901, AI268828, AA922637, AA531567, AI357994, AI309050, BF836098, N20619, AV763501, AA936062, AV711600, AW672918, N93282, BF810979, BF690985, BG056323, H49133, AA422000, AA425729, AW044436, AI740706, AI539737, AA931709, BF696241, N41898, BE972524, AW515413, AI017377, T83643, AA424838, BE879189, AW406931, AA135776, AI523674, AA422076, H62744, AA512991, W25122, AA374578, AV707541, AV721902, H20901, AA335669, T81252, R65722, R68402, R01195, D80535, T75066, AA331147, T55701, AA360427, AA151477, R16704, AI369338, T83806, D80859, W23283, T55617, D60042, BE707866, AW673282, H69272, AW074460, AW385013, AA331146, AW263458, R10838, R97305, AA349005, AA336200, AI214651, AA354131, AW665284, AA335103, AA335929, N88208, AA373357, R68603, D81732, BF773431, BF570530, BF090530, BE165563, BF757003, BF929244, AA418654, AA424305, AW675634, AW473911, AA401527, H98948, BG169743, AA418592, AW860841, BE165439, AI741767, AI263917, N32554, BE165564, AA338792, AW802151, AA365792, AW953995, BF347938, AI336124, AI831187, AL022313, U78678, AF276920, AR052467, A89699, D87741, U85089, A89697, U73525, A89724, A89726, and A89725.</p> <p>AI096614, BF689518, BF689602, BF690438, BF690510, BF316501, BE858130, AW340728, AI810241, AW963861, AW149761, BF439069, AA903390, AW953324, AV728578, AV651868, AA977686, BF115903, AA581377, AI679552, AI991083, AW193559, AA593747, BF951855, BF951834, BF951868, BF951837, BF951879, AA978316, AI827255, BF951847, BF951864, BF951811, AA706200, AA457517, AA004873, N48605, AA351076, AA005076, BF951809, AA457611, AA780194, BF951839, BF951873, BF951861, R53320, AI933315, BF951820, AW591270, T03623, AI348123, AA856593, W79233, BF951887, BF951804, AI014427, W69950, BF836260, BF951858, AV708382, AA777076, AI457647, AW512874, AA351330, N49195, W69951, BF951791, T74434, BE328207, H22041, AI679992, BF951822, T33676, T09286, H18390, AA780327, AI017000, AA514385, W73991, AI344364, H28035, H20510, M78434, H17240, T23476, H40171, H20600, H84107, R98653, AI566944, AV697649, T35667, AL524444, AI521769, AI358855, H84108, AA909477, T15763, AA376577, T78763, AI950107, R38753, AI038515, AW804533, BF834235, AL520806, AI423916, H40102, AW472773, AW900772, AV686990, T34809, H18389, AI272344, BE858146, T80029, T33765, AA827327, BF951794, BF810830, BF951803, N69080, BF812152, BE783055, AI873905, AW391924, H52821, AV728984, R52662, R46036, BF853739, AA336464, AA320503, BF952167, T33307, T16116, N47288, R61643, AW800900, D52198, F02316, AW992840, BF951890, AA324827, AA688361, AA725715, AI873019, H39520, AW894762, N53892, AA365710, AA629117, T07134, BE076511, AW869238, BF091468, AW203994, BG014481,</p>
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HWLHJ68	938	106152 1	1 - 1662	15 - 1676	AUI33671, AUI33250, BE886299, AW364014, AW364012, AW364015, BF789904, AW364019, AI760785, BF381648, AI384093, BF691155, BE349508, AUI55185, BF665614, AW628405, AUI57168, AI224905, BF210459, BE565115, AA282933, BF086868, AI267509, BF573653, BF696297, AA513728, AA729606, R80458, N76465, BF573488, N59362, AA334630, AA300682, BF211785, R69849, R80659, AA573139, AW614666, H86676, AA427982, BF106221, AI499874, R31977, AUI52566, AI351352, AUI54907, D61921, BE885576, AW471080, AI091339, AA310325, AI051323, AA830587, AUI34074, N67319, AUI55924, AUI52872, AA449856, Z99396, AW877209, AA621436, BF868687, AW979204, AW975002, AW975037, AW975028, AW975965, AL119324, AW975031, AW972292, AW976024, AW975032, AUI43049, AW604723, AW974374, AW392670, AW974089, AL119457, AW974801, AW971254, AW979127, AW972377, AW979212, BE705905, AW975433, N93060, AW969803, AW858526, BF436338, AW134482, BF868684, AW979288,

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HLGDA34	939	106154 3	1 - 1756	15 - 1770	AU120416, BE744242, AI802087, AI334107, AI679782, AA668147, AA777986, AI610074, F24745, AW814632, AI065031, AA904211, AV762162, BF984148, AW754413, AW754426, AU146342, AA482928, AI791659, AA584151, AW023111, BF991881, AI031759, AV758870, H68343, AI818362, AA873176, AA577748, AW237905, AA525331, AV720457, AW151247, AA584655, H85808, BF763954, BF991882, AV760014, AA558404, AL042667, AL042670, AU147414, AW572721, AI859834, AV761107, AV732057, BE243207, AW471332, AI452836, AW243817, BE090515, AI669421, BE154832, AW275432, AW151761, AW976024, T74524, AW754429, AA297776, AI355246, AI499954, BE138594, W96522, AV730440, AA425924, AI187148, AI251429, AL037910, BF725844, AA633875, BG054730, AI755214, AW576251, AW192599, AI569100, AI754567, AV763026, AV763058, AI038304, AW117860, AI049955, AI457313, AV756491, AI634187, AI446336, AW962611, AW500684, AW674631, AI249688, AW069227, BG026977, AA489390, T47138, AA666295, AA644090, BE396138, AW958962,

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HAICB08	940	106162 9	1 - 418	15 - 432	BE548483, BG011743, T83015, C18279, AA143436, BF149348, BE737483, AA625504, BG015853, E16696, AR060023, X84325, and D89821.
HVVAW60	941	106169 4	1 - 1751	15 - 1765	AL522960, AV716079, BE562316, BG257743, BE514489, BE514402, AW960737, BG118714, BF305711, AV760248, BG168581, BE908798, AL676130, BE396634, BE296285, BE548005, BE883381, BF027184, BF184561, BE564819, BE295446, BF210212, BE786704, AV728718, BE549142, BG113812, BE565708, AI991800, BE379623, BE537293, BE269782, BF031906, BF732339, AA307685, BE019417, BF589492, AI936232, W67860, BF541439, AI640485, AW573248, BF184405, BF002320, BF196840, BF305465, BF211313, AI628790, AA524353, BE380048, BE270486, AI824956, AW590315, AI990762, AI800990, AI335005, N31143, BF110487, BE568262, N21294, AW152627, AW612791, BF976876, BE565937, AW302169, BE268289, AW002644, N21128, AI333331, BF594576, BE671185, BE565017, AA994852, AA983846, BF571446, AA595031, AI420382, BE208007, BF241220, AW801675, AA610108, N90992, AW071591, AI240604, BE464059, AA678009, N31229, AI264921, AI655233, AI611678, AW819529, R70013, AW819596, AW749326, T64746, T31944, BG112244, AW015641, AA084445, AA579237, AA570191, AA935035, C15927, AA358195, AA081627, T07826, N94623, T34036, Z44938, AA380035, AW819534, BE961033, AA579517, R58098, BF593322, Z44410, N69498, D60023, D52558, AW373952, AW369584, R70058, AW732725, BF377913, BF155961, AW373174, BF088421, BF831228, AW373195, AW089404, W23822, BF377935, Z41687, BF831227, BF093517, T83793, BF088432, T32675, W67803, AI566308, H98950, F03903, AA358196, AI360228, AA913439, AA094862, AA129262, AA129234, BF734127, AK026636, Z85996, AF151882, AC011742, D16898, and AF090992.
HPDVB50	942	106170 8	1 - 2277	15 - 2291	BG110784, AU133851, BE895171, AU139859, AU136530, BG252145, BG110641, BG030216, BG115009, AW885996, AL522229, AI750569, BG180358, BF665151, BF701424, BG250200, BE622539, AW953720, BE879873, AU136623, BG163703, BE746945, H98997, BF668726, AI453574, N45209, AI038373, AV715925, AW157069, AA488398, AI031961, AI936414, BG055400, AU157578, AA917614, AW613506, AI242693, AI830692, AI817023, BF575831, AA975353, AW873961, AI379087, AI393586, AI969695, AA706024, AI469100, BF726482, AI143014, AW163037, AW029292, AA873241, AI375856, AW068933, N75082, W47315, AI206378, AI131506, AA868954, W37909, BF031608, N47942, AW194555, N40179, AI857755, AI521640, AI195724, BG118437, AA147923, AU156272, AA031314, AW055122, AL523048, BE175623, BE175622, AW197580, AA931438, AA195737, N20825, AI630350, AA534465, BE622705, AA635980, AA027826, AI347838, AA456304, AI041938, AI359317, AI671889, N53037, AA488531, BF209307, AW967825, W61353, W37969, AI042257, AI039277, AI266252, AA243394, AU157831, AA456702, W96493, AI184272, AI862590, AA583907, BF030909, BE045250, N26004, N59632, AA582503, AA632122, N27670, BF214953, AI651899, AA670437, BF195792, AA581612, W07653, AV653088, AA836144, AI825487, AI128759, BE465673, AA291904, W47200, AI183354, AI800321, H45131,

HAZAY40	943	106176 5	1 - 3107	15 - 3121	<p>AI301659, HI7346, AI276999, W20055, AA252488, H83333, AA724930, AI250811, AA625971, AI452718, AI341898, N29709, BF668882, AI525861, T30345, AI621193, T34303, BF669704, AA992663, AA836760, AA047567, AI864958, AI891142, H02501, AI266031, H72719, BE738881, AA491989, AA291166, AI356738, AA630028, H26432, AA962161, W03223, H72718, AI566181, HI3511, AI094636, AU138354, AV645409, H02502, N66130, R97194, N52312, BE004459, BE966654, AA876250, H55843, H63580, AI159829, H78295, AI334377, Z32891, BE165958, H78296, R63440, AA932971, N58559, AV689157, R63386, H26909, AI351585, AA885854, H83691, AA577175, H45434, BE873203, H55752, AA481154, AI039244, R76721, Z45752, AA976447, AA782746, AI208353, R76382, H26283, N91454, R64107, R31472, W25669, R31473, R33124, AA156043, R64198, AI474436, T81765, BE618282, BF696773, AA884149, AI498792, N98653, AA732532, AA890647, AV646901, N69563, BF358942, T90839, AA156020, AA354336, AA443805, T34995, R30936, T82078, T85747, AI208477, H63538, AA723952, H89847, AV695034, H47823, AA992834, H27713, AI523027, W69225, AA031423, Z38434, T49868, R33276, N94054, AW444875, AW176679, AJ002030, AX014900, AX040014, AX040013, R23720, R23767, R28666, R33241, R82873, HI3454, H90694, N73221, N78162, N78185, W96367, AA027887, AA195701, AA470628, AA586507, AI000517, AA095675, AA664112, AA777160, Z41404, AI128982, AI200005, AI659761, AI522073, AI685009, and AW299491.</p> <p>AUI24207, AA878323, AV727477, AA813018, BE819431, BE819398, AI982712, AA633959, AW950933, AI956077, BF064281, BF109192, BE140132, AI208234, AV727935, AW383147, BE219365, AV728174, AV728496, BF338980, AA778801, AV727596, BE677722, AI474131, AA918211, BG250843, AI458506, AV706403, BF761352, AW196922, AL046869, AI199333, AV726144, AI754255, AW189937, AI101251, BE140101, AW008386, AA629410, AI276190, AA729919, AUI37006, AW383099, AA411867, AW379346, AA411868, AI122819, AL046278, BG112787, AA350955, AL043466, AA778905, AI129808, AA906089, AI092120, BE938096, AA909370, BE220435, AW950111, AU156976, AW956564, AI217746, AW957591, BF093718, AA724295, R59145, AA142828, AI150676, AI859223, AW629051, AA350954, BE003474, T28874, AW856987, AI372582, AV654911, AI891046, R79559, BF766005, D58168, AI372585, W86981, AA688237, AW630587, AA112699, AA634462, AL048948, BE843792, R52701, F03219, T78821, BF447006, AA332608, AA025541, BE007851, AW072205, BF960536, AW627416, BE18041, R52752, H05997, BE003009, AA025613, AI204948, AA386124, BE719764, BF924561, BF755685, D51900, H05950, R59146, F21451, R41764, AI372584, AA334615, AW992555, AL039813, BF913530, F13339, T03639, F06952, BE813304, AA350943, BF986036, D56855, R79560, AW379200, AA112698, AI372583, T57699, R77478, R14949, BE938524, BE844105, BE844110, R23531, R45204, T57740, BG260187, AW082382, BE707402, R44663, BF914630, BF515358, F05976, BF753509, F02220, BF750798, BF761340, AA368172, BF761346, R77577, BF929007,</p>
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HACMZ51	944	106176 6	1 - 5344	15 - 5358	AA344093, BE928929, AA348616, R45203, BF092654, AW992581, AW364138, AW605050, R24941, W86810, BE140123, R24940, AW605054, BE179734, R17210, BF733875, BF767378, BF753741, AW934884, AW088149, AW605012, AW867442, AW377533, R57014, L14837, AF035298, U55935, D14340, and K03002. BF795041, BG176854, BE889259, AI123797, AW968653, W80418, BG107937, BF978869, BG180159, AW967830, AI935417, AI741992, N21026, BF516218, AI435856, AA488922, AW967828, AW968651, BF514662, BE175744, BE296548, AA725895, BF515826, BF132005, AI743694, AI248795, AA682214, N53932, AI160081, BE175743, BF940732, AA806186, AA808294, AA581874, BF825333, W88973, AI057447, BG112400, AI240596, AI804003, BF439423, AA705427, W79026, AI194938, AA262401, AA485223, N54336, AA701482, AI192835, BE882217, AW977587, BE175765, AA459487, AA487727, AA258332, AA410401, AA195537, AI089098, AA253015, BF672536, AA700235, AA258496, BE931749, R70964, AA742366, AA634985, AW968652, AA406446, AA972891, AA280738, AW967829, AI417670, H61661, N32280, W88972, AA243614, AA612844, AA809932, AI753396, AA676538, R96589, AA488851, W78956, D81704, AA578562, AI937703, AV750774, R91659, AA243594, BE218227, BF592077, BF431663, BF107149, AI350939, AI240751, R96590, W80450, AA599959, H59035, BG223302, N68753, H60057, N91646, N24728, AA253027, BF531077, AW182249, AA262626, AW449085, AA665027, H59401, N367709, AW572357, AA484946, N20616, N44566, BE465244, AA419347, AA034295, D60390, AW770441, AA748357, BF086114, H59036, BE172157, AV727020, D60753, D29339, AA279489, AW973702, H58990, R66624, H78860, N22621, AL135138, D80043, AB037744, T50378, T51069, T87331, T87432, T80282, R16493, R16793, R16889, R16943, R20740, R22221, R22276, R27597, R27696, R34517, R36581, R36582, R39968, R43467, R49072, R49692, R52816, R52851, R49072, R43467, R43494, R20740, R46644, R39968, R49692, R62955, R63008, R66425, R66819, R67917, H21718, H27063, H30186, H42692, H39131, H43926, H44586, H46389, R99312, R99404, H64752, H64751, H84964, H97190, H64752, H97608, N26236, N28697, N33047, N33556, N41538, N42109, N70229, N79806, N98255, W01018, W19986, W44335, W44449, W81010, W81009, W90684, W90779, W99356, W99386, N90413, AA009837, AA010386, AA010322, AA019377, AA019378, AA026243, AA029623, AA033587, AA035588, AA056089, AA056148, AA079689, AA081447, AA081752, AA082528, AA084728, AA100074, AA100159, AA113183, AA127588, AA134510, AA156575, AA157284, AA161199, AA161200, AA181973, AA187561, AA226873, AA226833, AA233473, AA234238, AA235690, AA256297, AA256403, AA417901, AA418057, AA430035, AA430244, AA492600, AA279831, AA468684, AA506011, AA506624, AA514562, AA587048, AA595566, AA604178, AA631096, AA573619, AA575906, AA579642, AA565772, AA714575, AA730078, AA742696, AA765252, AA812238, AA826845, AA904238, AA918044, AA922424, AA923043,
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HUXAL63	945	106179 0	1 - 3891	15 - 3905	U69567, AI125532, BF968973, BE890521, AF074692, BF968403, AW977280, BF111890, AV645725, BF797236, AW274041, BF002861, BF917447, AA434064, BG117266, AI559516, AU128956, AI569610, AV758189, BE047096, AW968976, BE044110, AW364486, BE842833, BF724803, AI041022, AW977686, AW188085, AW778740, AW471208, BF965471, AA058906, AW264922, AW936511, AA610288, BF102704, AI830921, AV750725, AI024731, W95811, BE885355, AI467943, W95857, AW474117, AA714833, AI332805, BF917665, W94729, W95818, AW276321, AA843441, AW473231, BF692464, AA725577, AI469526, AW301225, AI566211, AI376892, AI670697, AA827170, BE515424, AA043864, AW268885, AU157913, BF222606, AW304442, AW081224, AU139180, AW675227, AA936393, AI638422, N20661, AI632592, AI918739, AI446174, R70621, AW317070, BE148662, AW149140, AW592514, AI341172, BE045468, AI962441, AW580433, AW104291, AI963798, AA976362, AA627267, AW044184, AA884211, AA076173, AI687963, AW974151, AA927329, AW674700, N43830, AA489203, AI675470, AA706073, AA554058, AA043863, BE619745, D45459, AA128632, BF109435, BF198102, AA582316, AI689250, BG001662, AA075669, H88856, H05903, BF083956, AA960842, AW022044, H13597, H27633, AV682275, AA905245, AA588884, BF808593, F08282, F07961, F07955, AW028213, Z41033, DG3110, AW196550, AA732684, AA055815, AA757169, AA504225, F04206, AW020016, T72574, AI364772, AV657834, AW385164, H88860, AA434339, BF083367, H88855,

						<p>BG152597, R46054, AI698621, AA076485, AI382238, C01631, BE169625, AA321967, AI908536, AA449255, AA621776, AA382517, AW581142, AA301769, AA876399, D62775, H27554, AA449384, N29038, AA169470, AA471355, AA369775, BE008306, BE770768, AW904215, H13230, BE349422, BF089276, BF897381, AI889286, AA055867, AI807396, AW072187, AI564406, BE836696, BE940455, AW363719, AI955994, BE963970, C04552, BF083940, AA569808, BF350040, AA280195, AK002172, AF090904, AB020703, U95000, AX029228, AX029226, X64411, and AI685703.</p>
HLCIX57	946	106188 6	1 - 2115	15 - 2129		<p>AW949360, AW316853, AW089870, AA424629, AI201957, AI694683, AI042413, AI208793, AA424584, AW468856, AW243593, AI689654, AI887451, AI078571, W47195, AI348627, BE180539, AI868956, AI685858, AA242894, W52204, BE710410, R72819, AW338772, BF944058, AI871541, AA304463, AI284275, BF851275, AA593283, AA897431, R73270, AA579833, AA852334, AA853717, H43839, BE711428, BE695310, W47310, AW025730, AA298143, C01723, BE167889, AA834168, AI307300, BE836337, BF990841, BE766647, BF964609, BG009975, AW983550, AA382523, S82451, AC005479, Z37976, AF004874, U35363, and Y12760.</p>
HMALF63	947	106193 5	1 - 1152	15 - 1166		<p>AI373162, AL514198, BE744468, BE315169, AI879055, BG259216, AL534521, AL538110, BE548233, BE292875, AL535782, AL537844, AL519121, BG257178, BE895302, BE742053, BG169655, BG171616, BE790421, AI929358, AL531286, AL536936, AL517674, BE292962, BF725367, BF036696, BE223359, BE888207, AL537997, AL516034, BE889487, BE783803, BE882945, BG256087, BE889516, AW160574, BG165025, BF796758, BE784053, BE884321, BG177421, BE782424, BE873426, BE869356, BE885292, BE962078, AL037933, AL535845, BE879051, AI972935, BF306804, BE890568, BE882612, AU119653, BG168428, BE694068, BE783985, BG256542, AL048676, AL514830, AU128858, BF979567, BG179671, AW630116, AL048687, AU143723, AW003255, BG260833, BE939927, AW997244, BE787270, W20127, AA494315, AI734206, AA314388, AW954925, BE834065, AW401695, AA100745, BE782385, AA227875, AW402291, BG105799, AI188082, AI124638, BE870935, AW161447, AA485855, BE620451, AA071213, N24322, AW006363, H17687, BE244817, AA687282, BE867557, BE879392, BG008774, AW470363, BE501063, BE538463, BE895265, BG006671, AI815719, H29212, AW407681, AA100530, AA830489, BF949434, BE618384, AW339931, R59748, AA830488, AA113090, R56388, AA171458, AV653142, AA718924, BF949844, BF949846, D82199, AA351640, BF822910, D82234, BG010445, AW872599, R23526, AA218685, BE896855, AA316126, H23018, R25573, AA219744, T27125, T66781, T80306, BF088864, H06138, R59636, BE244031, BF752472, AW872480, BE243908, AA352235, BG180676, BF949926, T65622, R56750, BE831546, F07306, AA316123, AA676374, AA609598, BF981271, W22104, AA769956, R19429, AW407586, AA332399, AA905754, R18170, BE872713, BE242892, BE814852, BF752477, BE780714, AA465039, AA307240, AA884536, AI969327, BE865926, R14049, AA137233, AA366276, AA360745, H05673, H06931, F11952,</p>

HACMR36	948	106205 7	1 - 2216	15 - 2230	<p>AV740352, W47565, W25346, AW408034, AI952849, AA486473, AA360988, AL048756, N87310, H16379, R59810, AA081673, AW954870, AA361249, AU139419, AA331246, AU143274, AA584721, AX014869, U28964, I34404, L07955, D17615, D87660, D83037, D78647, U37252, D30740, U79231, AL109939, L07913, S79449, R35620, R51717, N44598, AA053074, N84093, AA213428, F05618, and AI867627.</p> <p>AL514907, AL513615, BE790591, BE559884, BE793937, BE396311, BF314808, AU120211, BE871655, BF315412, BE312810, BG111263, BG249137, BG254548, BE783949, AW246222, BE253150, BE256829, BF196899, BE615313, BE615793, AV645348, AW249053, BE222572, AA582193, AI971522, AA633897, BE265100, BF062548, AW083860, AI146327, AI923961, AW027697, AW027689, AI677984, AI677984, BE223086, BE262799, AI860723, AW297187, AI553876, BF516242, AI524021, BF115386, BE205840, AI239829, AI677764, AA885076, BF588747, AI027576, AU144604, BF085665, AI811635, AA553825, AI971727, AI983956, AA211483, BF058201, AA599596, AI951110, BE266771, AA702849, AW166239, AA580220, AW248614, AI684649, BF941696, BE301721, AW169464, AA665482, AW304841, AW245146, AI004172, AW057556, BF108684, AA599674, AI672124, BF752889, R87478, AA216758, BF970240, AI204291, AI923433, BE926533, AI537686, R75912, AW732114, AI924338, AI291360, D31223, AA503759, AI394349, BG055744, AA317891, AA687790, H20155, BE255535, AI827071, BG057020, AI623743, BE645436, H64647, BF304487, H20249, H40207, AW503800, AU117909, BF205435, BF989017, BF997845, BF995585, BF204566, BF997846, BF989221, BF896934, BF995656, BF995504, BF995552, AW627631, AA776382, AI094448, AI919375, AA504325, BE298522, BE873199, BF346937, C14511, BF308581, H52717, AA917674, AI378986, BG029770, BE278600, AI696139, H52696, BG026227, BF725769, N40190, C14461, BF335338, AI559638, BF081784, C14410, BF981357, AI37287, D59458, H41559, BE857280, AI652150, AA553899, T12190, BF995508, AW005259, H40206, AA935183, AA585292, BF304742, AA664469, BF750859, BG222453, AW518325, H13363, AW074730, AI022018, AI908692, AW839602, AW628252, BF306336, AW839596, H30707, AA372402, C14497, AU128889, BE796866, H52973, AU123548, AA356031, AA809845, AU128801, D59779, AA218550, R88152, BG253048, BE548430, BF988348, AI924407, BG030548, BG259362, BF526001, BG122005, BG164994, BF971016, BG027631, BG250744, AI620284, BG252351, BF969798, BG027221, BG105848, BG259612, BG117545, BG108375, BG164495, BF793872, BF980532, BG166291, BF342312, BF344164, BF525514, BG259435, BG260963, BG028019, BG167415, BG179486, BG036520, BG169823, BG179183, BG170847, BG250790, BG105758, BF796661, BG178197, BG255566, BG248893, BG163974, BF347154, BG257498, BG167013, BF981953, BF793646, BG255388, BG256106, BF968284, BG167641, BF343702, AK001184, and AK000963.</p> <p>AU122561, AU132527, BG252975, BF223038, AW960784, BG251220, BG120207, AI631712, AW003882, BF791715, BG117870, BG253108, BG029037, BG121891, BG252002, BE873094,</p>
HAOSM08	949	106207 9	1 - 2962	15 - 2976	

					AW003283, BF739785, AW301071, BG118233, BF569216, BF439997, AI816821, AW961659, AI905432, BG122599, BG253347, BG165716, BE926467, BE728544, BG251446, BF033436, BE885898, AI653681, AI905450, AW991638, AI653404, AW991611, BE218778, AW590561, BG034778, BG035342, AI638533, BG118971, BE908552, BE674602, AW192511, BE713520, AI492404, BE713681, AI655395, AI905502, BF822935, W61047, BF082069, N45411, BE713689, BE713636, BE501368, BE925769, AA469989, AI283086, AW960328, BF082073, BF059362, BE858282, BE713463, BE713611, W60895, AU148117, BE713438, AW576738, BE713747, BE713848, AA186764, BE713399, BG165456, AW369505, AI286237, BF822938, BE713502, BE925807, BE713549, BF195786, AA232799, AW593789, BE713631, N66904, AI590179, AI640250, BF082483, AA628911, AA443501, BF570196, AW025748, BF059504, AU154035, AA412062, BE713564, AW996434, AI858353, AA314530, AA187632, AI075379, AI915554, AA774676, BE713882, AW470800, AA468822, BF806940, AA758670, AI669335, AW611976, AA181248, BE713863, AA425819, AA460152, AA147312, BE539509, BE713410, BE350661, BF437296, BE713772, AI889551, AW176008, AA112286, BF222540, BE713999, BE551632, AI913737, AI619474, AA722976, AI203070, AI565491, BF751891, T09282, AI867898, AW449636, AA040824, BF822453, AA421051, BF081308, N26683, AI263337, HI19180, W74600, AI268165, BE713287, BE713591, AA113098, AA719514, AA460750, BF326649, BE079580, W72773, BF925997, AI168800, AA147405, T09264, BF924728, AW819046, AA350524, AI359577, AA975676, AA846563, AW393141, HI6555, AW750329, CO1714, AW198124, BE713721, BF927329, AW996674, AA040161, AW819048, BE079565, AA029239, T09249, R96636, BG007811, N78886, AI862101, AA639440, TI5638, AI023015, AA337503, AI468341, AW993721, H52647, BE075249, AA121084, R96683, BF912026, R13331, AW243222, BE075195, F07436, AW802876, F07169, BE714083, R30913, F06227, AA609737, AI796460, AA593408, BE813370, F02508, BF229108, T09248, N32100, AA121098, F04908, T08437, T32741, BF326969, T23588, BF002174, H52648, AA297660, HI14076, AA505467, F08296, BE814052, AW189805, HI14124, BF081398, AI335785, R37767, T53098, AA502584, AA029238, BF736327, N78988, HI18513, BF081385, BG118038, AA179757, R30867, AI863781, AA122338, BE814093, BF081381, BE713261, R40803, AF223574, AF059617, U85755, M96163, AF136583, HI9938, H40490, N66865, AA165381, AA164336, AA426282, AA493314, AA669807, AA954432, AI365230, AI765109, AW197659, and AW291669.
			1 - 2874	15 - 2888	AL519991, AL534720, AL519990, AU137078, AL037563, BE887697, BE889066, BE882061, BE005854, BG032749, BF977511, BE904376, AV751904, BG258904, AV716107, AV651801, BE897653, AW958723, AV757537, AU157013, AI608790, BE892495, AA768118, AA460582, BF572668, AI096596, BF687508, BG256721, AA775502, AA451982, AW014146, N47947, AI685295, BF515596, AW770423, BE350955, AA444107, BE883684, AW503758, AW263530, AA461508, AI150229, AA446029, AA939060, AI375970, AI025102, AA446302, AA416943,
HTEFM89	950	106208 4			

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HCHAK72	951	106212 3	1 - 2109	15 - 2123	AA534591, AW104113, BF435137, AA922301, AI978874, AA528179, AI251446, AW193752, AI469095, AI686794, A883068, AW970064, AW970877, AW970564, AW973116, AW970958, AW975425, AI865738, AW975409, AW979140, AW975987, AW971963, AA410788, AW975012, AU147162, AW976003, AW971068, AW500684, AI755214, AA847499, AW976008, AI754567, AI733856, BG250286, AI754105, AW969933, AW576251, AW979200, AA832145, AI683116, AW970875, AW970030, BG180976, AA228778, AI923052, AW471332, AA225406, AV738383, AW969751, AW328331, BE178231, AW974932, AI056177, AV695478, AI249688, BF832074, BF828714, AI609972, AW615504, AW979284, AW023111, AL135377, AW468009, AI457597, BE178064, AI017251, AI669421, BF724372, AA176978, AI697425, AA704393, AV764259, BE042511, AA630854, BE970985, AV763540, BE062478, AI693979, AW958962, AA579152, AW272294, BF917486, AA524616, AA644090, BE138594, AL079734, AL118925, AW131356, AW979096, BF724838, AI537800, AU146620, AA610433, AA503019, AV762633, AA535216, AI687343, BE742024, AI038304, AI049955, BF870792, AW971097, BF854308, AA584484, AW975634, BF821897, AI635028, AU147839, AW576485, AA536040, AA456924, AV732038, AV763550, AI049630, AA568314, AA176604, AA169245, AW973992, AV761647, BF681619, AW265688, AA583386, AI887235, AI792464, AI569100, AW969753, BE062476, AW979159, AV759518, AI446452, BF247318, BF826830, AI345695, AW327624, AV755593, BG054730, AW192599, AV760508, AF201380, AC015555, AP001746, AP001623, AL442167, AL163285, AP001610, AP001609, AL031311, AC009364, AC005399, AC020904, AC011497, AC005953, AC004883, AL133545, U52111, AC003071, AP001718, AL109804, AC018643, AF243527, AF124523, Z84466, AL353802, AC003684, Z86090, AL049758, AC006480, AC004659, AC018641, AC006088, AL050335, AL035587, AC005821, AF146367, AC008812, AF134726, AC005225, Z93015, AL133453, AC068799, AC020916, AC005409, AC009155, AL080317, AL033529, AL132765, AC008264, AC011489, AL035450, AC002504, Z82206, AC024247, AJ009611, AL024498, AC005522, AL117333, AJ295844, AL049694, AC018738, AC005519, AC005231, AL121952, AL035659, AC005668, AC005048, AC007191, AC003070, AC010326, AP001748, AC007731, AL136303, AP002898, AC005500, AC006942, AC002492, AC011475, AC002310, AC005000, AC027319, AF111169, AD001502, AL117694, AL162272, AL138914, AC006994, AF030453, AP000144, AL117381, AL109967, AC004383, AP001435, AL031668, L78810,

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HPAME12	952	106213 9	1 - 4017	15 - 4031	AL520948, AL534150, BE379785, BE889460, AW951413, AI636742, BF109648, AW389540, AW157786, BF093583, AL534149, AA894354, AI928930, BE379858, AI809775, AW389539, AI340277, N98563, AL121544, AA643931, AI139344, N47725, AI475939, AA234514, AI191842, AI858268, AW163828, AI087225, AI054103, AI270307, AI929183, BF245490, H97227, BF690921, BF726007, BF086123, BF097543, BF089189, BF885026, BF885029, H26066, AI127553, BG167657, AA634930, BF885025, N32132, BF092903, F08681, BF885020, BF092933, AA635726, AL045202, BF885030, BE244005, BF377457, BF885023, BF086142, BF377423, BF092909, AI219134, AA298466, AA296906, AA953281, AI834343, AA657786, BF885024, AA658139, BF092910, BF092831, BF885015, AI795861, BF092892, BF092913, BF092893, BF377465, BF885027, H97226, BF885022, H03564, H03553, BF092854, C02607, BF092866, AA329567, BF092908, BF092850, H03474, BF885014, AA875932, BF092853, AI810192, N56801, BF092833, BF092858, W24246, BF092843, AI819883, BF092875, BF885018, Z40106, AW276669, BF756688, BF092904, BF092839, N47724, BF092845, AA376865, W87286, AA359837, BF377447, BE701352, BF092856, BF885005, and U34605.
HPCQK37	953	106226 0	1 - 1866	15 - 1880	AU120097, BE740116, AU121181, AI185118, BF981615, BG110591, BE546255, AL525287, BF312815, BG117879, BG032223, BE296715, BF313657, BE314543, BF980741, AA926785,

HCE4F10	954	106230 9	1 - 1523	15 - 1537	<p>BF219874, AW752775, BE269586, BE740161, BE787867, AW604241, BE797063, BE393955, BF237910, BE796710, BE260361, BF574812, N30154, AI937120, AW997677, AW997649, BF034832, AW935167, BE793478, BE738847, BG164315, BG165579, BF984594, BE314504, AL535731, BE873040, AW005321, AL536388, BE541052, AL525246, AU123000, BF925086, AI741005, BF315119, AI963578, BE207905, BF770606, AA056547, AA552640, AW247180, BF770613, BE887741, AA149160, BF770609, BF589096, BG254118, AA814018, AI627895, BF770599, AW471378, AW837674, BF925082, AI92016, BE464709, BF569115, BF770610, BF215337, AI587519, AW837665, AW837562, AA93679, BF770607, AI890294, BF796293, AI168257, AI742914, AU146264, AA864811, AI024977, AA457336, AW583665, AA524857, AW583604, AA846554, AI373006, BF770150, BF925084, AI500323, AA653446, BE866370, AU154871, AI918029, AW954962, AW733136, BF439473, BF925081, N24689, AA581489, BE779009, AI291508, AW316961, AI083963, N98288, AI041891, AA962628, BF925085, AI302199, AV660924, AA563649, AA457242, BF770602, AI242734, AI273533, W19087, BE312179, BF055124, AI150821, AW022902, AA653388, AI079675, BE791201, BE902237, R17440, AI363494, BF770601, AA570277, AW081703, AA988115, AU155579, AA542816, BE409576, N29773, AA121234, BF055375, AI740795, BE281637, AI289625, AI457296, AI928381, AI623965, T31497, AI697228, N70880, BF438826, AI800020, BF056229, AU122263, AI581716, F24694, AA626836, AU158048, BF798517, AI040416, D80758, BE503591, AI970901, BE504331, H85229, N79610, BE090011, W26094, BF149134, AW821192, N57192, H95203, BF378706, AA602070, AI560793, AA776347, BF984056, AW009023, AA888663, BE779016, AI202805, AW193398, AI740857, R42786, AI127686, BF983728, AI034400, R38999, BF845077, N66218, AI016142, AA320128, AW801457, AU136701, AI708669, BF220105, AI160142, N76099, AV696159, AA188679, AA826963, BE709984, BF930322, BE709692, BE709678, AW884553, AW884542, BF081577, AA853764, BE293117, Z25003, T99735, BF356598, BE833762, Z25927, AW805150, AW379381, AW901325, AA320772, C05117, AI671781, BF817624, AA313725, AA304051, BE907323, BE304330, AW901197, W05394, T34081, BE881740, BF664821, F35706, AA149159, N36667, AA384770, AI887054, M79040, BE075614, AU133619, AW794830, N35767, AI879916, AA327026, BG025226, C00317, AA650630, R17706, T34793, F10998, AA702548, AI660485, AF010313, AP002532, AL365440, AB045359, U41751, AR028554, AR061801, AF131850, AR061802, AR061803, AR061804, AR061805, AR061806, AR061807, AR061808, T47598, T90304, T82977, T99736, R42722, R42722, W06883, AA121235, AA214596, AA826642, AA885874, AA911455, M91398, AA782063, Z28713, R11732, AI301215, AI307593, AI348866, AI624099, AI609110, AI679360, AI694765, AI739569, AI698270, AI865805, AI887044, AI802011, AI972547, AW269077, AW269100, AW273657, and AW274204.</p>
HCE4F10	954	106230 9	1 - 1523	15 - 1537	<p>AL514620, AL536205, AL523210, AL537131, AI525645, AL521425, BF311286, BG258324, BG031889, BE891149, BF530602, BF182863, BF037516, BE560984, BE314805, BG027266,</p>



					BE297709, BE797143, BF966086, BF038307, BG115029, BF206872, BE382803, BE388115, BE560800, AW958520, BE268774, BF345159, BE276916, BG104568, BF965558, AL527427, BF691744, BE548451, BE739244, BE314640, BG122405, AW955061, BG119829, BF338341, BE780354, C18348, BE536344, BE560620, BE782287, BE262392, BE560215, BE018452, AL521424, AW009827, AA434312, BE387175, BF206512, AW962582, AA405603, AA223353, BF206870, AA255640, BF751515, BE295519, AL523209, T32945, AW408419, BF305409, BE261658, BE882636, AL037180, AW957316, AA410555, AA173203, R90786, BG108512, AA075982, R87593, F12777, BE243900, R95140, F11343, BG167097, BE709158, BF931945, R34417, BF929625, T31070, H14134, AA578247, BE856127, AA257998, BF849877, H68648, AA559142, AL036822, H85256, Z46220, W24549, AI401735, T32946, AW958486, AW403313, T31929, BE560217, I75048, N76421, T30898, AI002669, AA309639, Z45387, BE244145, AW580277, H39051, AA224282, AA312624, BE739509, AA378194, BE539482, R88874, AA353090, AA380570, BE092771, H14136, AA325863, BE292960, R85149, BE244810, Z44762, BF793361, T31011, W21017, AA300092, AV647239, R88636, BF087318, BE077235, AW958525, BF331562, AA344316, AI341747, W42799, BF929696, T35924, AI869008, AA207209, R84557, AA284487, AA300083, AL514619, AA480605, BE925106, BF002936, Z20606, AI479627, AA213875, AI859259, AW878076, AI057627, BF91959, AW403782, AA324535, BG035524, AA557294, AI523551, AI885132, W60737, BF84502, AI660477, BG109634, N76919, W44992, W04223, AI91325, BE892099, W17218, AA779831, AA259008, AW170144, AI318031, BF920081, AA471094, AI814375, R01998, AA502465, AW878046, AA434226, AK025329, AX013711, AC004771, AL050060, A75494, and AL079315.
HBCBE63	955	106232 8	1 - 1688	15 - 1702	BF125787, BE729903, AW578276, BF868558, BE407151, AW044387, AI348180, AA878114, AW663931, AW578277, AW510900, BF880313, AW340635, AI436687, AI143954, AI343602, AI357253, BE386970, AI343568, AI951064, AI916581, AA513427, AA639505, AW205284, AA863186, AA992690, AI272767, AA758554, AA886199, BE504318, AI308813, BE872847, AA313762, AI659827, BG055204, AI784443, BF572882, BF742211, AA324486, AA506764, BG015015, AA135374, BE827464, AF007170, AL162430, AK000220, and AB007921.
HSSJO19	956	106234 6	1 - 1463	15 - 1477	BF664489, BG025594, BG105829, BG025801, BF036169, AI582833, BE669616, AW297031, BF434005, AI348145, AW003926, AI609194, AA826364, AI342910, AA483510, AA693913, R15864, R15863, AI675022, R34440, BF941111, AW504856, AA903163, AW237128, AA935221, AA557314, AW139232, R48974, BE300179, AA700361, AA094807, AA502939, AI886280, AA187873, AW403759, AA187874, AW846045, W74137, AW732231, AW731970, AA383361, AI126180, AI697181, AW250863, AW250109, BE905510, BE739570, F22239, AI076622, AA938975, AI874254, AI401662, AU158593, BE549170, AI797537, AI126903, AI904336, AI904341, AA575960, AA947516, AA604706, AA313272, AW875275, AI905921, AW247859, AV731835, AA570611, AL110193, AC007842, AC003693, AC004616, AJ006345,

					AL139150, AL133548, AL035106, AL356118, AL031655, AC020908, AC007676, AC068799, AC004966, T66490, and T66489.
HE8NQ23	957	106236 9	1 - 1776	15 - 1790	AI962439, AA424098, AA460529, AI968199, AI367723, AI969765, AI699236, AI206192, AL530798, AI697103, AF062006, AF061444, AF110818, and AX016185.
HTELJ95	958	106243 1	1 - 1647	15 - 1661	AU118298, BE739527, BE869231, BE739783, BG258670, AU120304, BF207656, AW957634, BF692429, AU127515, BF666306, BF680361, BF692388, BF573293, BF208154, BF698175, BF666489, BF670276, BF698426, BF574553, BE379831, BF244412, BF211731, BF029813, BF244460, BF667117, AV711581, BF668580, BF184480, BF979219, BF694128, BF978578, BF979035, BF242514, BE379947, AW674926, BF668924, BF211442, AA085749, BE564271, AI161329, BF667604, AI458425, BF207943, BF027717, AV761666, BF028919, BE564668, BF668645, BF211078, BF700097, AV714512, BF208109, BF214772, BE566424, BF589406, AI220487, BF696815, BF245420, BE568677, BF061018, BE566650, BE866712, BF977541, BE566046, BF668139, BE569092, BF132230, BE379920, BG034292, AA312639, BF215159, BF215749, BF184533, BF700586, BF700982, BF697918, AU144893, AA935565, BE739263, BE960900, BF029561, BE379721, BF690901, BF214611, BF103768, AV704751, BF542116, BE739009, BF697833, BF590340, BE565639, AA160565, BE568609, BE970128, BF670029, BF664604, BE910213, BF029401, BF694228, BF029167, BF030210, AU150083, AA159916, AA505806, BF029651, BF244279, BF207497, BF666214, BF573752, BE972722, AW403249, BF027718, BF132908, BF576115, BF208561, BF669678, BE564803, BE568871, BF698949, AI671765, BE564945, BF240423, BF031415, AU146402, BE568687, BE564459, BF244906, AA954921, BF104963, AA128376, BF214943, BF184357, AI073761, AA947866, BF571840, BF677692, W07537, AA165026, AA805959, BF217335, AV661558, BF247837, BF217901, AI123292, BF675630, BF977328, AA825818, BE566776, AW674590, AA932330, BF130294, BE961174, AA810172, AA160253, H94797, AV739771, BF208724, BF574072, BF208041, BF030421, BF207805, BF131887, AA160252, BF570547, BE565834, BF571246, BE565094, C03597, BF029007, T19370, T78271, AA731306, BF695998, BE567717, AA907405, BE567475, N80741, C21337, AA147329, AA374477, BF241249, T78099, H48920, BF694245, BF246944, BE815523, BF028131, AA328225, BF246100, AA355205, AL047681, BF246005, AI719856, AI384085, N30715, BF214890, AV736109, AV742550, BF208176, AA774405, H48921, BF208535, BF217146, AV742551, BE855952, AW361432, N41329, BF209810, AA732085, BF208530, AA573751, BE326283, N56838, BF666070, BF671397, AI952391, AW797402, AW235332, AA328302, BF216221, BF209570, AA082421, N59836, AW391564, AV755858, AW973292, BF671547, AA186815, BF208983, BF242270, BF214287, BE565103, BF240920, AI732972, AI347472, AI791367, AA872247, BF208754, AA760959, AB006679, and AF027733.
HTPCP50	959	106243 5	1 - 2992	15 - 3006	AW959554, BE503321, BF439602, AA724866, AI241562, AI802994, BF679074, BF789905, W72803, AI024852, AI127443, W76329, AA429137, AA700716, AA487977, AW204065,

					<p>AI024874, AA953110, W68553, T93570, D58024, AI093076, BE439445, AA296694, T10362, T10363, AI520811, AA487827, R51635, AA693670, AI537587, R15824, AI866215, H00259, AA370362, AA364110, AW023955, AW022563, AI453280, AW382068, BF156012, AW604713, AW604716, AW371737, T92143, AW371674, AF192403, AF192401, AF192402, T66450, and AW152154.</p>
HKGBU67	960	106249 6	1 - 765	15 - 779	<p>BE537330, AI888137, AV701370, AU128929, BE613107, BE781577, AI672845, AW956358, BE962666, AI570562, AW440620, BF027216, AV701455, AA403116, BE612527, AI279867, AA418410, AW190186, BF794821, BE909695, AA401841, AU151145, AA905617, AW406511, AI798784, AA904054, AI401140, BF219013, AA887280, AI313194, AA081356, AI167620, AI018151, AI149369, AA593855, AI186137, AW070380, AA418507, BE958141, AA422027, AW136809, AI271520, AA833745, AA593915, AA461241, AI091023, AI672989, AA814928, N57462, W88723, AI285073, AI470105, AI476041, AI808738, AA639807, AV691385, AI023904, AV686945, AA025365, AA719755, W21365, T53949, BE547365, AA360441, AA338778, T55484, N29519, T55410, AA972490, AI968907, BE774710, AA356437, N93015, AA081355, AW137776, AA765233, AW795784, AA699446, W88724, BE502542, AI090475, AI913976, BF590992, AA872346, AA090282, AV712556, BE092555, AF016371, AF036331, and AI030995.</p>
HFKIT82	961	106254 4	1 - 1848	15 - 1862	<p>AW129420, AL526882, AI954625, BG252755, AW515637, AW002450, AI218958, AI075929, W72881, BE502304, BF344975, AI860065, AW510578, AI696337, BF341699, AA461147, AW772266, R14839, R14808, BF344755, AA666277, AI692833, W74406, BF108710, AI739359, H17173, BE883297, H51918, AI826180, BE463846, AW029326, AA903644, AA913932, AI623196, BF949967, AW294155, R18323, C06135, AI969803, W23997, AI652903, AI954650, AI970097, BF511055, T80549, BF361444, R11697, AA535279, AA019283, AA883986, AA054103, AL138095, AI905980, H83974, BG115528, AI201698, AI219898, BF949569, AW025845, AA679116, AW881802, AI910215, AA437196, AW593514, AC005754, AC008688, AC025436, AF152495, AF152496, AF152493, AC005752, AF152490, AF152491, AF152497, AF282973, AF217757, AC074130, AB046841, AF152502, AF217749, AR025266, AF152494, AF152501, AF152498, AL117449, AF152499, AF152528, AF152492, AF152500, AK024641, AF152489, AC020967, AC020974, AF131761, AK023190, AR025265, AK021915, AF152527, AC005618, AF152507, AF152318, AF152510, AF152323, AF152509, AF152508, AF152513, AF152322, AF152326, AR025269, AB002325, AF152515, AF152328, and D88795.</p>
HE2LW42	962	106257 4	1 - 1288	15 - 1302	<p>AL042644, AV753036, AI174720, AV727351, AA777328, AI268349, AV688028, AI292216, AV729489, H59650, AV693628, R53767, AA744996, AI342797, BF056041, AW590055, AI337141, W07248, AV749927, AW590523, BG015185, AV723467, AI064754, AA318543, AI689792, BE046799, W88477, AI240743, H87083, AA699845, BF927790, AV748261, AV747610, R97197, R91627, H91969, AW148855, R99163, N920666, BF895065, H71305,</p>

					<p>N76324, AI091315, AV748976, R53766, AA701267, AI494251, BF932705, AA327773, AA297295, AA029246, AA318859, H51546, AW799202, H78029, W85841, H58895, BF509584, AW291645, T93821, N56264, AV660040, BF942873, BE671998, BE222690, AV709310, AI657197, T93776, R09540, AI459255, AV706475, AW900374, AA587566, AV701976, AA904190, AI133465, AV704361, AI018638, AA328911, AL042942, AW003239, AW157066, H48704, AV748189, H71307, RI2264, AA432355, H59709, W69224, AV745845, W02416, R16781, H69132, R09653, AA582558, H70692, AW608565, AI204935, AV752037, H91435, BF115526, AI870856, BE669505, AI125171, AI681544, AA779239, AA42765, AA984278, R81006, AA009857, AV699879, AA319172, AA972349, R74372, W25097, AI652322, W38427, H68787, W95825, AV707714, AI874325, H66961, W01483, AV751716, BE971052, AV704581, H62151, BE072890, R78857, AV708711, AI133545, BG010030, R92058, BG008531, AA319866, N64120, AA918364, W80682, BE767017, AA987892, AI651945, AI248895, AA988898, W93422, AA620289, AI401572, BF947175, AI146279, BG003591, N55284, AI003540, AV751283, BF437913, AW090068, AV691186, AI138899, H70899, H58998, AW156990, N54358, AW016235, BG003603, R63593, H48532, AI368233, AA429656, R87223, AV706164, AI189406, BF999013, BE049555, R91818, BE155780, AI801328, AI223081, AV694165, AA009858, AI143719, BE771644, AI621180, R94676, AW609837, AW381763, AW381768, AW817275, H49428, AW316731, H77781, BE155782, H73009, AI188681, H54194, AW371545, R16481, AW609838, AV695947, AV685582, W69081, AV692560, N28992, R92223, AI299753, AW905050, H73768, AV748482, AV661238, H70689, AW515017, AW817314, BE383106, AW817306, AW384297, AA628340, AI277747, AW089342, AF052114, AF119863, AB032607, AF090934, and Y13832.</p>
HOGCE44	963	106258 6	1 - 2812	15 - 2826	<p>AI529207, AU131514, BF966725, AU118705, BG176867, BG260610, BF796807, AV725097, BG120210, BE890223, BE670805, BE891248, BG031774, BF691460, BE159045, BE159047, BF793410, BE620303, AI681703, AW857786, BE159033, BF968000, AU133714, BE694456, AW363349, AL133793, BE219535, BF976878, BF740139, AU145204, AI953648, BE892122, AA426391, BF881261, AU131939, BF083273, AW271550, AA599010, AW950106, AA932884, AI832044, BE620839, AI360263, AI332405, AL134494, BE218915, AW861560, AA489281, AU153590, AI480021, AI719025, AI554931, AA477783, AU154944, AA719830, BF038414, AI686963, BE813109, AW137641, BF081957, BF083263, AA829712, W00647, AW578909, AA836400, BF871460, AA305783, AV709911, BE895783, BE831167, AI041343, AW510304, BE702612, AI929319, AI718863, AA477395, AA477895, AW815726, AA045329, AA045387, W94959, R72051, AA486424, H08441, BF761351, BE936282, AA301683, AW118521, AI002196, AW613749, BF087893, T66094, R53499, F11788, AI868515, AA262364, AW802792, AI860943, AA372002, R53498, AW630161, AA341432, BF082195, AW842290, AW805858, H08727, BF748789, R73159, R09595, H82419, AW852196, BF920867, R73234, AA429305, AA994434, AI674319, N48502, AI526057, AW578911,</p>

					BE838646, BE819013, BE831001, AW901012, AW293085, BF768303, BE838677, BF359607, AA599125, BE830999, BE838586, BE819051, BE819053, T54000, BF944501, AI423048, AA358611, AV726372, BE830998, AA843689, N45506, BE830916, BF330106, BE830996, BF966656, AU153238, BF330110, AA707394, AI090208, BF371174, BE247047, AI814986, AV752167, BF343829, AI096352, BE830992, AI139084, R87597, D55167, H23531, AW630229, AA041424, AA878457, BE830994, T55256, AW815625, BE830960, N63319, BE005119, BE838663, BF761232, AA760997, BF327571, AI284972, AA614732, BF824790, AA164321, AA248397, R71899, AI312849, R09495, H23557, BE933359, AA356438, AA029778, AA642084, BE838644, AA363943, R21009, AA906966, BE933337, AA782084, BE830993, AI383363, M34668, I23846, X54130, X54890, X53364, I23847, L01702, M36033, L22437, Z32749, X54134, AL121905, AX033920, U57500, Z23054, Z23055, L13680, L13669, AB046072, L13674, L13675, L13677, L13668, L13672, L13681, L13684, and AX033934.
HOVIJ72	964	106262 6	1 - 2072	15 - 2086	BF685761, AI927486, BE781435, BE897367, BF437053, BE858728, BF348277, BG058683, AI674231, AI962534, BF726437, AI810612, AI923238, AW304824, AI338279, AW082888, BE257506, AA524737, AI539319, AI081760, AI138880, BF058141, AI565999, BF439557, AI680453, AI523996, AI342308, AW001338, AI952559, AA455886, AI421925, AI146722, AI274832, AI342562, BF128840, AV695313, AW205524, AI367531, AI263799, AI880114, AI798737, AI200656, AI650628, AI910869, AI674502, AI521083, AI925242, AI284195, BF129063, AI089196, AV693097, AI219515, AI880273, AW130599, BE677656, AA455883, AW079524, AI679856, AI865850, AA148540, BE503049, AA010344, AI679281, AI887554, AA632997, AI220656, AA194919, BF990462, AI634901, BF932272, AW188449, BF761164, AI808866, H26532, AI091957, R73631, AA134237, AI859881, AA194920, AA580244, AI194001, AA741176, AA832367, AI962066, BE938366, BE832299, AW190526, AI080370, AA777156, AA732832, AI185976, AA156632, H25720, AW190400, BF001400, AA400695, AI868623, R54677, AA148784, AI039261, W76189, BE938494, AW118247, AI581956, AV690144, AA743700, H40747, AL041507, AI278902, R66168, AW172445, AI199557, R54676, AW298684, H46427, AW242200, AW517309, BF115401, AI005082, AI243368, AI263274, AI563963, AI817986, AI365561, BE672981, AI494458, AI243614, AI365570, BF850280, AI538466, AA452870, AI580973, AA742664, AA864796, AI190958, BE677499, BF929130, N95346, AA705811, AI346405, AI589753, W72018, AI690402, AV691082, AV693294, AV688786, AV694416, AA913716, AA905648, R00343, N89911, AA993262, AV684738, AA918430, AI371509, AV686967, AI015415, H27241, N35381, AI089208, W72295, AA010345, AW196950, W72990, R50392, AA134236, AI825465, AW241576, R48919, AV692353, AI521081, AA150448, AV684528, AA411769, R48807, AA885408, AI932574, BF886497, H28547, AI884711, W76321, AI971315, W07358, BF447545, H26623, AI863830, BF794570, H46665, BG152791, BE616297, AI370906, R67050, BF360816, BF001377, BF476577, AI453016, AA877349, AI129195, H28546, R87406, AA736760,

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HODBT14	965	106262 8	1 - 617	15 - 631	AV683488, AV652792, AV655669, AV698583, AV709265, AV688150, AV709232, AV962407, AV704853, AV729519, AV701525, AV697895, AV727101, AV695545, AV721972, AV704541, AV708440, AV705159, AV703106, AV705727, AV705611, AV707140, AV686405, AV702065, AV690209, AV707097, AW951773, AV725273, AV726103, AW952064, AV726716, AV706761, AW951711, AV731018, AV725697, AV758698, AV726503, AV707878, AV706975, AV704547, AV647006, AV702681, AV756755, AV706584, AV692600, AW950529, AV709987, AV686390, AV706443, AW963660, AV711518, AV703158, AV706893, AV704551, AV727015, AV713128, AW955616, AV703830, AV703715, AW964540, AV762343, AW954994, AV702296, AV707146, AV654711, AV649625, AW952328, AW958280, AV707733, AV726261, AV658334, AW963378, AV683053, AW950597, AI525316, AV693768, AW960237, AV705959, AV658770, AV728965, AW956619, AW952743, AV688407, AV703992, AV693604, AW957110, AV702298, AV695489, AV756799, AV728446, AV705216, AV708850, AV686420, T18597, AV758892, AV686100, AV695752, AV723685, AV726091, AV701545, AV649299, AV705520, AV709235, AV649305, AV709040, AV727828, AV689804, AV684811, AV687015, AV685675, AV693000, AW957853, AV727221, AV707236, AV691786, AW965813, AV755725, AV702515, AV703855, AV709141, AV685456, AV697039, AV647390, AV727052, AV694684, AV704973, AV726613, AV691080, AV728901, AW955713, AW958163, AW953802, AV727381, AW951707, AV727916, AW959366, AV701872, AV661369, AW953611, AW959994, AV706272, AV707217, AV705331, AW950047, AV763447, AV651519, AV706448, AV701751, AW960040, AV725375, AV728467, AV658299, AV683002, AW951184, AV694674, AV705909, AV691211, AV701754, AV724867, AV726362, AV693727, AV702172, AV651719, AV707359, AV704785, AV703460, AV710111, AV705319, AV684962, AV652528, AV704891, AV702277, AW958763, AV703821, AV705998, AV705777, AV653766, AW960658, AV684731, AV707631, AV726938, AA824604, AW959346, AV698400, AV725054, AW945144, AW963940, AV707572, AW962651, AW962388, AW960458, AV728853, AV694386, AW953645, AW953691, AW964673, AV707650, AV702947, AV688658, AW955708, AV697880, AV703978, AW958102, AV695359, AW960830, AV729348, AV705869, AV725948, AW951291, AW957533, AV684214, AV704392, AW949779, AL109758, L13858, AR061133, U94592, AX047064, Y09813, AX047063, A70869, AX047062, AF006072, AX009343, AX009341, AX009337, AX009335, AX009345, AX009342, AX009344, AX009340, AX009339, AX009336, AX009338,

						AX009334, AR050070, AR038762, A62298, A82595, A82593, Z30183, A62300, U45328, AF320628, AX040581, AX046743, and AR025466.
HBOEB83	966	106262	1 - 1380	15 - 1394		BF755445, W07601, BF843629, BF364932, BF840131, AA378282, R57499, AW384132, BF945921, BF943555, AA092071, Z19585, AF102887, X89963, AF152393, and L27263.
HODCT96	967	106263 1	1 - 529	15 - 543		BE064551, BF086062, BF893169, AK023721, D70831, AC010620, AC024563, AC012627, AC008990, AC004004, AB040906, AC011494, AC007204, AC008463, AC010329, M55422, AC011477, AC003973, and AC011493.
HTXJE60	968	106265 5	1 - 1550	15 - 1564		BF038124, BG171051, AW749929, AV732936, BE885891, BG119342, AW959370, BE384272, BF669153, BE410276, BE547057, BF514058, AV716716, BF666034, AW247514, BF243382, BF571380, N98593, AW361781, AA461153, BE409941, BF680949, R11877, H18036, AV682204, N36690, AA214548, H58648, AA584425, AW245099, A1192476, A1374760, W31019, A1086429, A1300181, R61663, R17754, A1376885, BF673383, A1199359, R17219, N24708, AA479642, AA291204, AA405250, AA629554, BF933763, AA362535, AA291660, AA745817, R67822, AA477330, AA213533, N79116, AW072748, A1262159, A1000698, A1936072, AA772228, AW992044, N54671, AW090390, BG230587, BF477852, AA973898, AW450684, A1632973, AK024756, and A1239531.
HUSIQ62	969	106267 9	1 - 1231	15 - 1245		AL527804, AL527803, AU133250, AL531642, AL531641, BG024567, BE409577, BE275235, BE900374, BE407097, BG110484, BG177580, BF733601, BF794754, BF796438, AU129699, BG257211, BF795405, BE277114, BF972712, A1207460, BE537036, BF976291, AW958534, A1802428, BG177394, BG113805, A1133236, BG180769, BG107198, BF981756, AV717659, AU129620, BE391607, AW951026, BE904310, BE255557, BG036677, BE252235, BE900713, BE408445, BE926573, BE782089, BG106443, BE389138, BE884653, BE279526, BE539248, BF685431, BF213044, BE885774, A W673780, A W204191, A W936182, BF035534, A W936216, A W936154, BF797205, BE540934, A1204084, BE386536, BE296097, A1798235, A W593018, A1017913, A1798966, BF000818, A W250100, A W799320, A1523803, A W582711, BF064032, A W571487, A W167852, A W327724, BF974778, A W754043, BE888728, BE394509, BF663406, A W605135, A A714394, BF912862, BE394384, A W936161, A W799305, BF683464, AU151712, BE394533, BG059618, BF184313, BE388631, BF211439, BE047170, A W605184, N31851, AU154621, A W291824, BF238052, BE882796, A W468394, A1831782, A W246077, A W440973, BE390283, A1954999, A W803951, A1380618, BE645929, A1434252, A1338618, A1369130, A A580516, A1373115, A1738431, A1336359, BE566233, A W327783, A1683060, BE885950, A W404086, A1242410, A W152603, A W473412, A1432821, A1954175, BF028000, A1745038, A1905275, A A807713, A W605160, BF095616, A1126474, BF184229, A1270212, A1022067, A A806501, BE777563, W60824, A A629547, BE221418, A W674103, A A187362, A1355746, A1570979, N23950, A1033448, A A868159, A A766119, A A954820, BF913491, A A521127, A V714125, A W002354, A1355783, A A731362, A W608831, A W665939, A W406422, BE535671, A A969082, A W866948, W68241, BE328028,

					<p>AI862617, AW297850, W68242, BF214833, AI560067, AA312574, AW732887, AA772954, H61612, BE898680, W60823, AA977914, AA188250, AW802295, AI357624, AA862798, AI811435, AI394389, AA586616, AA169381, AA553817, AA620564, AI160199, AA629802, T51982, BE080948, AA917486, BE003102, AA355440, BF239925, BF448466, AW975695, AI200601, W72084, BE003246, BF209389, C02000, AV740551, BE311400, AA019203, AI017915, BE172284, AI370157, N58005, AW837857, X62534, Z17240, M83665, J02895, D84418, AF267733, Z46757, M83235, M80574, AF302091, AL031274, U01345, U01348, U01343, L13297, U00763, M81784, U01145, AC010478, AK000250, AC010723, U72620, U95739, AL353999, AF106862, AC007390, AL139383, AL133606, X98834, E16086, AC002060, AF040723, AF061943, AC000053, AL117432, AF307337, AC005992, AF219137, AF098162, X72889, AC009113, X72387, X63574, AC002287, X56039, AF119883, AF109906, T83519, R02344, R02448, H45275, H61050, AA188857, AA281827, N84361, N85594, N88090, R29505, AA089618, AA095163, AA167412, AA167413, AA092427, AA247431, AA471162, T52063, AA702683, AI472642, AI813553, AI955369, and AW195295.</p> <p>AL518312, BE876206, BG249252, AW965671, BG117042, BF242380, AW965669, BF541503, BF214421, AI990836, BF030816, BF475708, AI360210, AW118735, AW241585, BF852809, AA159926, AI671624, AI918769, AA668872, AI129365, BF002990, AI570207, AI921845, AA759100, AA608962, AI480175, AA534338, AA622034, AA128382, AW511429, BF244063, AW014932, BE350318, AW191019, AI632581, BF590946, BE551547, AI864862, AA962714, AI809654, AA195594, AW591626, AI917844, AW274989, BF574216, AA458988, AA564992, AW243373, AI244452, BE349611, F34378, AA459203, AV708611, AI239924, AA287277, BF672808, AA604658, AW675711, AA147341, BE865967, BG057896, D59283, AI962921, AW780340, AV708614, BE672924, H77893, AA191343, AA810152, BF675349, BE565472, AW024311, AW901422, BF852230, AV757324, AI368536, AW338999, AI619533, BF375145, AI701851, AA936959, BE618592, AA253008, AL518313, AI274509, AW904157, T35346, AW886698, T33750, AV682653, AI926285, BE706231, AW904146, Z42909, BE880505, AI366371, AA165037, AA626230, BF698473, N72642, AI761817, AW573584, N63390, AA629849, BE699232, AI832841, BF063350, AA852076, AV756635, AA194959, AV713926, BE565910, BF103813, AA069322, BE699283, BF669833, BF103883, BG256173, AA253132, AA287427, BG108565, N56321, BE958352, AW304692, AA659675, BF029358, AW337940, AA356559, BG249403, AW578864, AW904646, BF378777, AI860409, AW138982, BE172110, N58731, BF819096, BF058158, AW857007, AW371763, C00473, W27589, BE257642, BE514579, BG255384, BE765235, BE256501, BE889415, BE881408, BF081300, BG163413, AX018191, AL035305, AF314752, AX018169, Z99127, AF057356, AF275803, and U97327.</p>
HPCTC48	970	106268 6	1 - 1099	15 - 1113	
HKBK29	971	106271 8	1 - 2308	15 - 2322	



					AV705893, BE748150, BF103730, BF969127, BF701016, BF126330, BF244101, BE737904, BE884439, BG170672, BF698489, BE958039, BE738525, BE380151, BF791298, BE778335, BF574286, BG025350, BF692635, BF673154, BE878575, BF216818, BE565458, BE380095, BF665447, AV734153, BF677665, AW662229, BE564926, BF218156, BF028050, BF978882, BF218613, BF667003, BF130786, BF185082, BF698689, BF696054, BF244500, BE567375, BF697784, BF031300, BE865570, AW629584, BF028129, A1922913, BF184277, BF664732, BF218692, BE961009, BE568735, BF666910, BF695466, BF240106, AV731226, BF690657, BF977414, BF665136, BF696631, BE893984, BF436115, BF675422, A1339300, BF184615, BE881989, BF211735, BF699602, BF215527, BF692092, BF029085, A1983656, BF209826, BF240468, BF667839, AW167080, BF211689, BF791905, BF102749, BF248301, BF541104, BF244039, BF697329, BF218994, BF674179, BF691956, BF977851, BF185596, BF697826, BF185162, BE567330, BF245021, BF692317, BE567209, BF247040, BF540969, BE566194, BF692270, BE538457, BF245139, BE568536, AW020664, BE567726, BF241912, BF695669, BF217846, AW614845, BF446091, BF669512, BF028637, BE564037, BF240278, BF209701, BF698380, BF027884, BF700733, BF690815, A1458458, BE866044, BF027945, AW994882, BE566654, BF790759, BF102678, BF219415, A1802233, BF6666381, BE567929, BF243653, AW007398, A1917870, BF240200, AA421623, A1931986, BF105024, A1612776, BE567167, A1061417, AA903250, BF240291, A1701592, A1459419, BE567930, BF245311, BF678201, BF243671, A1911672, A1458491, BF104786, BF572326, A1344531, AA826495, BF571127, AA528059, A1298139, A1080254, A1631363, BE737773, BF541077, BE739135, D55768, AW515524, BF185150, AA224330, BE931178, AA470080, BF888598, BE971070, N48726, BF207877, A1358628, A1278396, BF083962, AA864458, BF240912, BF239273, AV757587, D53475, A1081009, A1767667, AV743809, BF247295, AV761646, BF698069, BF216783, AV656347, A1536768, AV658919, D60350, BF033302, W52191, BE047925, A1536024, AA635842, BF218667, BF208790, BF676269, AW957445, H25618, BF211414, AA908466, A1435203, BE960800, A1279724, AW797393, BF693941, D60465, Z24859, A1300288, D81481, AA625143, AW385928, W52903, BF217163, N56293, T90076, BF240099, AA748884, AA353356, BE709325, BE709355, BF130723, AA037331, A1432717, BE738360, A1291624, AA319066, AA223798, AA247834, A1803923, D55769, BF357986, AA301101, A1872348, D54242, AF132968, AF161525, AK024753, AF275810, AF229832, Z58933, AF144082, C02225, and A1560591.
HPMCX26	972	106274 3	1 - 669	15 - 683	BE006225, BF038302, AA368470, A1820542, BF996462, BG010637, T64506, BF767592, BF830211, T93730, AC002073, AL117466, D45906, AB005131, U88618, AB008117, AB005132, D31874, D31875, D31876, D31877, AB005135, and D85527.
HFKEHF51	973	106278 5	1 - 2428	15 - 2442	BE746374, A1743383, A1189480, AV728988, BE899408, BE562186, BE746781, BE561742, AV722367, BF347181, BE294788, BF530313, BE297333, BE397775, BF309493, BE268309, A1952007, BE743200, BE299126, AW952382, AW571554, AW130259, AW269905,

AW268367, BF310849, AI400646, BE857180, AI039861, AA639694, BF507388, AA994030, BF434700, AI056993, AW469101, AI280124, AW087805, AI040027, BF305457, AI095733, AA843902, AI813888, BF527954, AW043686, BE222971, AI018251, BE019740, BF727202, AW001144, AI184877, AA977540, AI221461, BF058113, AI744692, AA939338, BF058488, BE327064, AI631591, BF060991, AA884553, AI188291, BF111321, AW078707, AW300196, AI354719, AI362107, AA601020, AW239541, BF307205, AI961777, AA620650, AI971518, AA782108, AW468853, Z98493, AI123005, AI281234, AI371785, AI042264, Z98494, AI907175, BF945716, AA037644, AI983407, AI291368, AI189906, AI696796, AI805625, AI193049, AW068434, AA654142, AA028948, AI192226, AA424708, W86749, H18114, AA035346, BE902648, AW075664, AI085855, N50916, BF868739, BG152447, BF931509, AA137064, BF940371, AA584282, AI147886, AA082844, W65336, H03762, BF923686, AA621825, AI298050, R55061, AW068276, AA885454, AA954337, AA028947, BF929294, R48880, H50357, AA613635, BF871643, W96508, AV721662, AI991634, BF740062, AW051544, N26167, R74334, BF594397, W65306, N71800, AW067959, BE206342, H27911, AI750973, AA137135, N50788, AA984404, AA236213, AW015653, BF923702, AI744638, AV723825, AA419024, W35175, AA984360, R68793, AI741716, AI742212, R69300, N26168, R48488, AI991641, H02866, AI142695, AI468487, AA295172, H42461, T48913, R69284, R55030, AA668542, AA452705, H14200, AA022527, AI219145, AI475336, R48489, H18159, AI219092, R25771, R74427, H46438, AW014159, R69301, AW733005, BF357697, R69285, BF928802, AW444859, AA989514, H43664, BE702963, W87321, AA295171, T48912, AA904744, AI272234, W20398, AI085799, BF514530, AA083138, R48776, AA377483, R26607, AW581330, D59307, T12571, H42862, H44735, BF997408, AA358896, W96475, AV751736, BG014799, AI185266, H50395, AW068024, BE294110, BF932203, BF956105, N55145, AI915948, R73224, AA037643, AW834928, AA450064, AA236214, AA975214, BF941646, AW244038, BG007442, AA022459, R25786, AW578281, AW966531, AW978634, AV724520, AV699550, D58283, AV718692, AW975618, AV718489, AV699927, AW966053, AF177203, AB040935, AF218016, AC006312, AX047063, AX033851, A62298, A84916, A62300, AX027925, X67155, AR070327, AJ302649, AX047064, AX047062, AJ132110, AX020191, A67220, AX020190, AX021518, A25909, D26022, D34614, A78862, D89785, Y17188, AR018138, AR025207, AR092424, AX035434, X68127, D88547, X82626, AJ294956, AF058696, AB012117, AR088705, AF260572, AR008278, A85396, AR074141, AR0666482, AX042372, A85477, AB028859, A86792, AR087649, X93549, AX015396, AX028130, II9525, AF135125, A82595, AJ287395, Y12724, AR074545, A44171, A30438, AR016808, AB037923, A94995, AR060385, AB002449, AR064240, I50126, AR008443, U79457, Y17187, I50132, I50128, I50133, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AR008277, AR008281, AX035429, AX035428, AX035426, Y09669, AR074139, A43192, A43190, AR038669, AR066487, AR074136, D88507, X64588, AR066490, AR054175, II4842,											

HUCPE28	974	106279 5	1 - 1076	15 - 1090	AR016691, AR016690, U46128, D50010, I18367, AB033111, A63261, A70867, AR008408, AR091537, S69292, AR062872, Z32749, AR093385, I18371, X89963, D13509, A64136, A68321, AR060133, AR087528, A43601, I79511, X8798, U89247, AB023656, AF123263, AR032065, X98248, X93535, AR037157, AR008382, AA234577, and T19874. BE798851, A1762558, BE258902, BE251817, BE545676, AW967970, AW274241, BE855533, BE855590, AW242945, BF951715, AW027116, A1738977, A1097099, A1831606, A1935304, A1057522, AA243829, AW574617, A1361028, A1146329, AW275358, A1092427, A1089701, A1523606, A1097597, A1521322, AW511172, A1168266, A1807825, A1524209, A138290, A1660227, A1161303, AA954679, A1081418, BE502552, A1637508, A137455, A1160335, A1523835, A1418882, A1076040, AA679406, AA855022, A1737563, A1018528, A1006211, A1027541, AW027121, AA994592, A1269258, A135845, AA810915, BE857947, A1198243, AA455694, AA243750, A1698633, AA262194, A1537870, AW005460, A1651177, H87087, A1937020, AA873171, AA633518, AA835701, BF063722, AA765735, A1382433, A1039147, A1695656, AA813862, BE274246, AA846127, AA916726, AA749308, AA834567, AA766859, AA744763, AA884673, AW404490, R46413, AA764951, BG001430, AW138380, BE549583, AC008762, and AA808479.
HPWAH30	975	106284 0	1 - 817	15 - 831	AV755078, AU123448, AU143734, AU123664, BF797755, A1792344, A1566486, AW503073, BE064551, AV704018, BE396253, AU132789, A1733621, AA209235, BE897039, AV714960, AL042967, BF921029, BF699661, BF056061, BF749681, BG027032, AW976399, AW384427, A1042967, BF921029, BF773250, T47250, BF817669, A1554749, AA768909, A1744718, A1042967, BF921029, BF773250, T47250, BF817669, A1554749, AA768909, A1744718, BE177809, AW272732, A1384913, N98899, AA397793, A1476267, AA743098, AA309966, BF749053, BF749575, AA976492, A1680077, AW502863, BE694276, BF240985, A160228, T05813, AA480353, BF376299, BE177796, AA205471, BF748343, AA587596, BF921199, BE700971, AW105262, BF796887, A1718402, AA351793, A1280287, AA351526, A1049550, BF817370, A1241755, BE177799, BF751655, AA974841, BE694240, AW392975, A1042041, AW869565, T07738, AA352999, AW241205, T06856, AW887346, BE775238, BF247382, BE082118, L11672, AC016628, AC010329, AC021090, AC010620, AC012627, AC011477, AK023721, AC008554, AF070651, AC073539, AC011494, AC008626, X59244, AC022432, AC010636, AB040906, AC008739, AC024563, D70831, AC008463, X78932, AC008990, M27879, U35376, AB027251, AC011493, AC003973, AC008981, AC007204, AC011482, M55422, AC078899, Z96138, A136969, AC004004, A138715, AC006457, Z95704, AP000541, AC009006, L15309, AC006455, AC006539, AK022550, A1239321, A1163202, AF242519, AF054180, AF003540, AC000378, AC002519, U09847, AC025731, and AF038951.

**TABLE 4**

Code	Description	Tissue	Organ	Cell Line	Disease	Vector
AR022	a Heart	a Heart				
AR023	a Liver	a Liver				
AR024	a mammary gland	a mammary gland				
AR025	a Prostate	a Prostate				
AR026	a small intestine	a small intestine				
AR027	a Stomach	a Stomach				
AR028	Blood B cells	Blood B cells				
AR029	Blood B cells activated	Blood B cells activated				
AR030	Blood B cells resting	Blood B cells resting				
AR031	Blood T cells activated	Blood T cells activated				
AR032	Blood T cells resting	Blood T cells resting				
AR033	brain	brain				
AR034	breast	breast				
AR035	breast cancer	breast cancer				
AR036	Cell Line CAOV3	Cell Line CAOV3				
AR037	cell line PA-1	cell line PA-1				
AR038	cell line transformed	cell line transformed				
AR039	colon	colon				
AR040	colon (9808co65R)	colon (9808co65R)				
AR041	colon (9809co15)	colon (9809co15)				
AR042	colon cancer	colon cancer				
AR043	colon cancer (9808co64R)	colon cancer (9808co64R)				
AR044	colon cancer 9809co14	colon cancer 9809co14				
AR045	corn clone 5	corn clone 5				
AR046	corn clone 6	corn clone 6				
AR047	corn clone2	corn clone2				
AR048	corn clone3	corn clone3				
AR049	Corn Clone4	Corn Clone4				
AR050	Donor II B Cells 24hrs	Donor II B Cells 24hrs				
AR051	Donor II B Cells 72hrs	Donor II B Cells 72hrs				
AR052	Donor II B-Cells 24 hrs.	Donor II B-Cells 24 hrs.				
AR053	Donor II B-Cells 72hrs	Donor II B-Cells 72hrs				
AR054	Donor II Resting B Cells	Donor II Resting B Cells				
AR055	Heart	Heart				
AR056	Human Lung (clontech)	Human Lung (clontech)				
AR057	Human Mammary (clontech)	Human Mammary (clontech)				
AR058	Human Thymus (clontech)	Human Thymus (clontech)				
AR059	Jurkat (unstimulated)	Jurkat (unstimulated)				
AR060	Kidney	Kidney				
AR061	Liver	Liver				
AR062	Liver (Clontech)	Liver (Clontech)				

AR063	Lymphocytes chronic lymphocytic leukaemia	Lymphocytes chronic lymphocytic leukaemia				
AR064	Lymphocytes diffuse large B cell lymphoma	Lymphocytes diffuse large B cell lymphoma				
AR065	Lymphocytes follicular lymphoma	Lymphocytes follicular lymphoma				
AR066	normal breast	normal breast				
AR067	Normal Ovarian (4004901)	Normal Ovarian. (4004901)				
AR068	Normal Ovary 9508G045	Normal Ovary 9508G045				
AR069	Normal Ovary 9701G208	Normal Ovary 9701G208				
AR070	Normal Ovary 9806G005	Normal Ovary 9806G005				
AR071	Ovarian Cancer	Ovarian Cancer				
AR072	Ovarian Cancer (9702G001)	Ovarian Cancer (9702G001)				
AR073	Ovarian Cancer (9707G029)	Ovarian Cancer (9707G029)				
AR074	Ovarian Cancer (9804G011)	Ovarian Cancer (9804G011)				
AR075	Ovarian Cancer (9806G019)	Ovarian Cancer (9806G019)				
AR076	Ovarian Cancer (9807G017)	Ovarian Cancer (9807G017)				
AR077	Ovarian Cancer (9809G001)	Ovarian Cancer (9809G001)				
AR078	ovarian cancer 15799	ovarian cancer 15799				
AR079	Ovarian Cancer 17717AID	Ovarian Cancer 17717AID				
AR080	Ovarian Cancer 4004664B1	Ovarian Cancer 4004664B1				
AR081	Ovarian Cancer 4005315A1	Ovarian Cancer 4005315A1				
AR082	ovarian cancer 94127303	ovarian cancer 94127303				
AR083	Ovarian Cancer 96069304	Ovarian Cancer 96069304				
AR084	Ovarian Cancer 9707G029	Ovarian Cancer 9707G029				
AR085	Ovarian Cancer 9807G045	Ovarian Cancer 9807G045				
AR086	ovarian cancer 9809G001	ovarian cancer 9809G001				
AR087	Ovarian Cancer 9905C032RC	Ovarian Cancer 9905C032RC				
AR088	Ovarian cancer 9907 C00 3rd	Ovarian cancer 9907 C00 3rd				
AR089	Prostate	Prostate				
AR090	Prostate (clonotech)	Prostate (clonotech)				
AR091	prostate cancer	prostate cancer				
AR092	prostate cancer #15176	prostate cancer #15176				
AR093	prostate cancer #15509	prostate cancer #15509				

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AR094	prostate cancer #15673	prostate cancer #15673				
AR095	Small Intestine (Clontech)	Small Intestine (Clontech)				
AR096	Spleen	Spleen				
AR097	Thymus T cells activated	Thymus T cells activated				
AR098	Thymus T cells resting	Thymus T cells resting				
AR099	Tonsil	Tonsil				
AR100	Tonsil germinal center centroblast	Tonsil germinal center centroblast				
AR101	Tonsil germinal center B cell	Tonsil germinal center B cell				
AR102	Tonsil lymph node	Tonsil lymph node				
AR103	Tonsil memory B cell	Tonsil memory B cell				
AR104	Whole Brain	Whole Brain				
AR105	Xenograft ES-2	Xenograft ES-2				
AR106	Xenograft SW626	Xenograft SW626				
H0002	Human Adult Heart	Human Adult Heart	Heart			Uni-ZAP XR
H0003	Human Adult Liver	Human Adult Liver	Liver			Uni-ZAP XR
H0004	Human Adult Spleen	Human Adult Spleen	Spleen			Uni-ZAP XR
H0006	Human Frontal Lobe of Brain					Uni-ZAP XR
H0007	Human Cerebellum	Human Cerebellum	Brain			Uni-ZAP XR
H0008	Whole 6 Week Old Embryo					Uni-ZAP XR
H0009	Human Fetal Brain					Uni-ZAP XR
H0010	Human Fetal Hepatic	Human Fetal Liver	Liver			Uni-ZAP XR
H0011	Human Fetal Kidney	Human Fetal Kidney	Kidney			Uni-ZAP XR
H0012	Human Fetal Kidney	Human Fetal Kidney	Kidney			Uni-ZAP XR
H0013	Human 8 Week Whole Embryo	Human 8 Week Old Embryo	Embryo			Uni-ZAP XR
H0014	Human Gall Bladder	Human Gall Bladder	Gall Bladder			Uni-ZAP XR
H0015	Human Gall Bladder, fraction II	Human Gall Bladder	Gall Bladder			Uni-ZAP XR
H0016	Human Greater Omentum	Human Greater Omentum	peritoneum			Uni-ZAP XR
H0018	Human Greater Omentum, fII remake	Human Greater Omentum	peritoneum			Uni-ZAP XR
H0019	Human Fetal Heart	Human Fetal Heart	Heart			pBluescript
H0020	Human Hippocampus	Human Hippocampus	Brain			Uni-ZAP XR
H0021	Human Infant Adrenal Gland	Human Infant Adrenal Gland	Adrenal gland			Uni-ZAP XR
H0022	Jurkat Cells	Jurkat T-Cell Line				Lambda ZAP II
H0023	Human Fetal Lung					Uni-ZAP XR
H0024	Human Fetal Lung III	Human Fetal Lung	Lung			Uni-ZAP XR
H0025	Human Adult Lymph Node	Human Adult Lymph Node	Lymph Node			Lambda ZAP II
H0026	Namalwa Cells	Namalwa B-Cell Line, EBV immortalized				Lambda ZAP II
H0028	Human Old Ovary	Human Old Ovary	Ovary			pBluescript
H0029	Human Pancreas	Human Pancreas	Pancrea			Uni-ZAP XR

			s			
H0030	Human Placenta					Uni-ZAP XR
H0031	Human Placenta	Human Placenta	Placenta			Uni-ZAP XR
H0032	Human Prostate	Human Prostate	Prostate			Uni-ZAP XR
H0033	Human Pituitary	Human Pituitary				Uni-ZAP XR
H0034	Human Parathyroid Tumor	Human Parathyroid Tumor	Parathyroid		disease	Uni-ZAP XR
H0035	Human Salivary Gland	Human Salivary Gland	Salivary gland			Uni-ZAP XR
H0036	Human Adult Small Intestine	Human Adult Small Intestine	Small Int.			Uni-ZAP XR
H0037	Human Adult Small Intestine	Human Adult Small Intestine	Small Int.			pBluescript
H0038	Human Testes	Human Testes	Testis			Uni-ZAP XR
H0039	Human Pancreas Tumor	Human Pancreas Tumor	Pancreas		disease	Uni-ZAP XR
H0040	Human Testes Tumor	Human Testes Tumor	Testis		disease	Uni-ZAP XR
H0041	Human Fetal Bone	Human Fetal Bone	Bone			Uni-ZAP XR
H0042	Human Adult Pulmonary	Human Adult Pulmonary	Lung			Uni-ZAP XR
H0044	Human Cornea	Human Cornea	eye			Uni-ZAP XR
H0045	Human Esophagus, Cancer	Human Esophagus, cancer	Esophagus		disease	Uni-ZAP XR
H0046	Human Endometrial Tumor	Human Endometrial Tumor	Uterus		disease	Uni-ZAP XR
H0047	Human Fetal Liver	Human Fetal Liver	Liver			Uni-ZAP XR
H0048	Human Pineal Gland	Human Pineal Gland				Uni-ZAP XR
H0049	Human Fetal Kidney	Human Fetal Kidney	Kidney			Uni-ZAP XR
H0050	Human Fetal Heart	Human Fetal Heart	Heart			Uni-ZAP XR
H0051	Human Hippocampus	Human Hippocampus	Brain			Uni-ZAP XR
H0052	Human Cerebellum	Human Cerebellum	Brain			Uni-ZAP XR
H0053	Human Adult Kidney	Human Adult Kidney	Kidney			Uni-ZAP XR
H0054	Human Corpus Callosum	Human Corpus Callosum	Brain			pBluescript
H0056	Human Umbilical Vein, Endo. remake	Human Umbilical Vein Endothelial Cells	Umbilical vein			Uni-ZAP XR
H0057	Human Fetal Spleen					Uni-ZAP XR
H0058	Human Thymus Tumor	Human Thymus Tumor	Thymus		disease	Lambda ZAP II
H0059	Human Uterine Cancer	Human Uterine Cancer	Uterus		disease	Lambda ZAP II
H0060	Human Macrophage	Human Macrophage	Blood	Cell Line		pBluescript
H0061	Human Macrophage	Human Macrophage	Blood	Cell Line		pBluescript
H0062	Human Thymus	Human Thymus	Thymus			Uni-ZAP XR
H0063	Human Thymus	Human Thymus	Thymus			Uni-ZAP XR
H0065	Human Esophagus, Normal	Human Esophagus, normal	Esophagus			Uni-ZAP XR
H0067	Human left hemisphere, adult	Human Left Hemisphere, Adult	Brain			Lambda ZAP II
H0068	Human Skin Tumor	Human Skin Tumor	Skin		disease	Uni-ZAP XR
H0069	Human Activated T-Cells	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0070	Human Pancreas	Human Pancreas	Pancreas			Uni-ZAP XR
H0071	Human Infant Adrenal	Human Infant	Adrenal			Uni-ZAP XR

	Gland	Adrenal Gland	gland			
H0073	Human Leiomyeloid Carcinoma	Human Leiomyeloid Carcinoma	Muscle		disease	Uni-ZAP XR
H0074	Human Platelets	Human Platelets	Blood	Cell Line		Uni-ZAP XR
H0075	Human Activated T-Cells (II)	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0077	Human Thymus Tumor	Human Thymus Tumor	Thymus		disease	Lambda ZAP II
H0078	Human Lung Cancer	Human Lung Cancer	Lung		disease	Lambda ZAP II
H0079	Human Whole 7 Week Old Embryo (II)	Human Whole 7 Week Old Embryo	Embryo			Uni-ZAP XR
H0080	Human Whole 6 Week Old Embryo (II)	Human Whole Six Week Old Embryo	Embryo			Lambda ZAP II
H0081	Human Fetal Epithelium (Skin)	Human Fetal Skin	Skin			Uni-ZAP XR
H0082	Human Fetal Muscle	Human Fetal Muscle	Sk Muscle			Uni-ZAP XR
H0083	HUMAN JURKAT MEMBRANE BOUND POLYSOMES	Jurkat Cells				Uni-ZAP XR
H0084	Human Namalwa Membrane Bound Polysomes	Namalwa Cells				Uni-ZAP XR
H0085	Human Colon	Human Colon				Lambda ZAP II
H0086	Human epithelioid sarcoma	Epithelioid Sarcoma, muscle	Sk Muscle		disease	Uni-ZAP XR
H0087	Human Thymus	Human Thymus				pBluescript
H0090	Human T-Cell Lymphoma	T-Cell Lymphoma	T-Cell		disease	Uni-ZAP XR
H0092	Human Pancreas Tumor	Human Pancreas Tumor	Pancreas		disease	Uni-ZAP XR
H0093	Human Greater Omentum Tumor	Human Greater Omentum	peritoneum		disease	Uni-ZAP XR
H0095	Human Greater Omentum, RNA Remake	Human Greater Omentum	peritoneum			Uni-ZAP XR
H0096	Human Parotid Cancer	Human Parotid Cancer	Parotid		disease	Lambda ZAP II
H0097	Human Adult Heart, subtracted	Human Adult Heart	Heart			pBluescript
H0098	Human Adult Liver, subtracted	Human Adult Liver	Liver			Uni-ZAP XR
H0099	Human Lung Cancer, subtracted	Human Lung Cancer	Lung			pBluescript
H0100	Human Whole Six Week Old Embryo	Human Whole Six Week Old Embryo	Embryo			Uni-ZAP XR
H0101	Human 7 Weeks Old Embryo, subtracted	Human Whole 7 Week Old Embryo	Embryo			Lambda ZAP II
H0102	Human Whole 6 Week Old Embryo (II), subt	Human Whole Six Week Old Embryo	Embryo			pBluescript
H0103	Human Fetal Brain, subtracted	Human Fetal Brain	Brain			Uni-ZAP XR
H0105	Human Fetal Heart, subtracted	Human Fetal Heart	Heart			pBluescript
H0107	Human Infant Adrenal Gland, subtracted	Human Infant Adrenal Gland	Adrenal gland			pBluescript



H0108	Human Adult Lymph Node, subtracted	Human Adult Lymph Node	Lymph Node			Uni-ZAP XR
H0109	Human Macrophage, subtracted	Macrophage	Blood	Cell Line		pBluescript
H0110	Human Old Ovary, subtracted	Human Old Ovary	Ovary			pBluescript
H0111	Human Placenta, subtracted	Human Placenta	Placenta			pBluescript
H0112	Human Parathyroid Tumor, subtracted	Human Parathyroid Tumor	Parathyroid			pBluescript
H0113	Human skin Tumor, subtracted	Human Skin Tumor	Skin			Uni-ZAP XR
H0116	Human Thymus Tumor, subtracted	Human Thymus Tumor	Thymus			pBluescript
H0117	Human Uterine Cancer, subtracted	Human Uterine Cancer	Uterus			pBluescript
H0118	Human Adult Kidney	Human Adult Kidney	Kidney			Uni-ZAP XR
H0119	Human Pediatric Kidney	Human Pediatric Kidney	Kidney			Uni-ZAP XR
H0120	Human Adult Spleen, subtracted	Human Adult Spleen	Spleen			Uni-ZAP XR
H0121	Human Cornea, subtracted	Human Cornea	eye			Uni-ZAP XR
H0122	Human Adult Skeletal Muscle	Human Skeletal Muscle	Sk Muscle			Uni-ZAP XR
H0123	Human Fetal Dura Mater	Human Fetal Dura Mater	Brain			Uni-ZAP XR
H0124	Human Rhabdomyosarcoma	Human Rhabdomyosarcoma	Sk Muscle		disease	Uni-ZAP XR
H0125	Cem cells cyclohexamide treated	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		Uni-ZAP XR
H0128	Jurkat cells, thiouridine activated	Jurkat Cells				Uni-ZAP XR
H0129	Jurkat cells, thiouridine activated, fract II	Jurkat Cells				Uni-ZAP XR
H0130	LNCAP untreated	LNCAP Cell Line	Prostate	Cell Line		Uni-ZAP XR
H0131	LNCAP + 0.3nM R1881	LNCAP Cell Line	Prostate	Cell Line		Uni-ZAP XR
H0132	LNCAP + 30nM R1881	LNCAP Cell Line	Prostate	Cell Line		Uni-ZAP XR
H0134	Raji Cells, cyclohexamide treated	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		Uni-ZAP XR
H0135	Human Synovial Sarcoma	Human Synovial Sarcoma	Synovium			Uni-ZAP XR
H0136	Supt Cells, cyclohexamide treated	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		Uni-ZAP XR
H0139	Activated T-Cells, 4 hrs.	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0140	Activated T-Cells, 8 hrs.	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0141	Activated T-Cells, 12 hrs.	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0142	MCF7 Cell Line	MCF7 Cell line	Breast	Cell Line		Uni-ZAP XR
H0144	Nine Week Old Early Stage Human	9 Wk Old Early Stage Human	Embryo			Uni-ZAP XR

H0147	Human Adult Liver	Human Adult Liver	Liver			Uni-ZAP XR
H0149	7 Week Old Early Stage Human, subtracted	Human Whole 7 Week Old Embryo	Embryo			Uni-ZAP XR
H0150	Human Epididymus	Epididymis	Testis			Uni-ZAP XR
H0151	Early Stage Human Liver	Human Fetal Liver	Liver			Uni-ZAP XR
H0152	Early Stage Human Liver, fract (II)	Human Fetal Liver	Liver			Uni-ZAP XR
H0153	Human adult lymph node, subtracted	Human Adult Lymph Node	Lymph Node			Uni-ZAP XR
H0154	Human Fibrosarcoma	Human Skin Fibrosarcoma	Skin		disease	Uni-ZAP XR
H0155	Human Thymus, subtracted	Human Thymus Tumor	Thymus			pBluescript
H0156	Human Adrenal Gland Tumor	Human Adrenal Gland Tumor	Adrenal Gland		disease	Uni-ZAP XR
H0157	Activated T-Cells, 0 hrs, ligation 2	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0158	Activated T-Cells, 4 hrs., ligation 2	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0159	Activated T-Cells, 8 hrs., ligation 2	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0160	Activated T-Cells, 12 hrs., ligation 2	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0161	Activated T-Cells, 24 hrs., ligation 2	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0163	Human Synovium	Human Synovium	Synovium			Uni-ZAP XR
H0164	Human Trachea Tumor	Human Trachea Tumor	Trachea		disease	Uni-ZAP XR
H0165	Human Prostate Cancer, Stage B2	Human Prostate Cancer, stage B2	Prostate		disease	Uni-ZAP XR
H0166	Human Prostate Cancer, Stage B2 fraction	Human Prostate Cancer, stage B2	Prostate		disease	Uni-ZAP XR
H0167	Activated T-Cells, 24 hrs.	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0168	Human Prostate Cancer, Stage C	Human Prostate Cancer, stage C	Prostate		disease	Uni-ZAP XR
H0169	Human Prostate Cancer, Stage C fraction	Human Prostate Cancer, stage C	Prostate		disease	Uni-ZAP XR
H0170	12 Week Old Early Stage Human	Twelve Week Old Early Stage Human	Embryo			Uni-ZAP XR
H0171	12 Week Old Early Stage Human, II	Twelve Week Old Early Stage Human	Embryo			Uni-ZAP XR
H0172	Human Fetal Brain, random primed	Human Fetal Brain	Brain			Lambda ZAP II
H0173	Human Cardiomyopathy, RNA remake	Human Cardiomyopathy	Heart		disease	Uni-ZAP XR
H0175	H. Adult Spleen, ziplox					pSport1
H0176	CAMA1Ee Cell Line	CAMA1Ee Cell Line	Breast	Cell Line		Uni-ZAP XR
H0177	CAMA1Ee Cell Line	CAMA1Ee Cell Line	Breast	Cell Line		Uni-ZAP XR
H0178	Human Fetal Brain	Human Fetal Brain	Brain			Uni-ZAP XR
H0179	Human Neutrophil	Human Neutrophil	Blood	Cell Line		Uni-ZAP XR

H0180	Human Primary Breast Cancer	Human Primary Breast Cancer	Breast		disease	Uni-ZAP XR
H0181	Human Primary Breast Cancer	Human Primary Breast Cancer	Breast		disease	Uni-ZAP XR
H0182	Human Primary Breast Cancer	Human Primary Breast Cancer	Breast		disease	Uni-ZAP XR
H0183	Human Colon Cancer	Human Colon Cancer	Colon		disease	Uni-ZAP XR
H0184	Human Colon Cancer, metastasized to liver	Human Colon Cancer, metastasized to liver	Liver		disease	Lambda ZAP II
H0186	Activated T-Cell	T-Cells	Blood	Cell Line		Lambda ZAP II
H0187	Resting T-Cell	T-Cells	Blood	Cell Line		Lambda ZAP II
H0188	Human Normal Breast	Human Normal Breast	Breast			Uni-ZAP XR
H0189	Human Resting Macrophage	Human Macrophage/Monocytes	Blood	Cell Line		Uni-ZAP XR
H0190	Human Activated Macrophage (LPS)	Human Macrophage/Monocytes	Blood	Cell Line		Uni-ZAP XR
H0192	Cem Cells, cyclohexamide treated, subtracted	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		Uni-ZAP XR
H0194	Human Cerebellum, subtracted	Human Cerebellum	Brain			pBluescript
H0196	Human Cardiomyopathy, subtracted	Human Cardiomyopathy	Heart			Uni-ZAP XR
H0197	Human Fetal Liver, subtracted	Human Fetal Liver	Liver			Uni-ZAP XR
H0199	Human Fetal Liver, subtracted, neg clone	Human Fetal Liver	Liver			Uni-ZAP XR
H0200	Human Greater Omentum, fract II remake,	Human Greater Omentum	peritoneum			Uni-ZAP XR
H0201	Human Hippocampus, subtracted	Human Hippocampus	Brain			pBluescript
H0202	Jurkat Cells, cyclohexamide treated, subtraction	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		Uni-ZAP XR
H0204	Human Colon Cancer, subtracted	Human Colon Cancer	Colon			pBluescript
H0205	Human Colon Cancer, differential	Human Colon Cancer	Colon			pBluescript
H0207	LNCAP, differential expression	LNCAP Cell Line	Prostate	Cell Line		pBluescript
H0208	Early Stage Human Lung, subtracted	Human Fetal Lung	Lung			pBluescript
H0209	Human Cerebellum, differentially expressed	Human Cerebellum	Brain			Uni-ZAP XR
H0211	Human Prostate, differential expression	Human Prostate	Prostate			pBluescript
H0212	Human Prostate, subtracted	Human Prostate	Prostate			pBluescript
H0213	Human Pituitary, subtracted	Human Pituitary				Uni-ZAP XR

H0214	Raji cells, cyclohexamide treated, subtracted	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		pBluescript
H0215	Raji cells, cyclohexamide treated, differentially expressed	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		pBluescript
H0216	Supt cells, cyclohexamide treated, subtracted	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		pBluescript
H0217	Supt cells, cyclohexamide treated, differentially expressed	Cyclohexamide Treated Cem, Jurkat, Raji, and Supt	Blood	Cell Line		pBluescript
H0218	Activated T-Cells, 0hrs, subtracted	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0219	Activated T-Cells, 0hrs, differentially expressed	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0220	Activated T-Cells, 4 hrs, subtracted	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0222	Activated T-Cells, 8 hrs, subtracted	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0223	Activated T-Cells, 8 hrs, differentially expressed	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0224	Activated T-Cells, 12 hrs, subtracted	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0225	Activated T-Cells, 12hrs, differentially expressed	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0228	C7MCF7 cell line, estrogen treated	C7MCF7 Cell Line, estrogen treated	Breast	Cell Line		Uni-ZAP XR
H0229	Early Stage Human Brain, random primed	Early Stage Human Brain	Brain			Lambda ZAP II
H0230	Human Cardiomyopathy, diff exp	Human Cardiomyopathy	Heart		disease	Uni-ZAP XR
H0231	Human Colon, subtraction	Human Colon				pBluescript
H0232	Human Colon, differential expression	Human Colon				pBluescript
H0234	Human colon cancer, metastatic to liver, differentially expressed	Human Colon Cancer, metastaticized to liver	Liver			pBluescript
H0235	Human colon cancer, metaticized to liver, subtraction	Human Colon Cancer, metastaticized to liver	Liver			pBluescript
H0238	Human Myometrium Leiomyoma	Human Myometrium Leiomyoma	Uterus		disease	Uni-ZAP XR
H0239	Human Kidney Tumor	Human Kidney Tumor	Kidney		disease	Uni-ZAP XR
H0240	C7MCF7 cell line, estrogen treated, Differential	C7MCF7 Cell Line, estrogen treated	Breast	Cell Line		Uni-ZAP XR
H0241	C7MCF7 cell line, estrogen treated, subtraction	C7MCF7 Cell Line, estrogen treated	Breast	Cell Line		Uni-ZAP XR
H0242	Human Fetal Heart, Differential (Fetal-Specific)	Human Fetal Heart	Heart			pBluescript

H0244	Human 8 Week Whole Embryo, subtracted	Human 8 Week Old Embryo	Embryo			Uni-ZAP XR
H0246	Human Fetal Liver-Enzyme subtraction	Human Fetal Liver	Liver			Uni-ZAP XR
H0247	Human Membrane Bound Polysomes-Enzyme Subtraction	Human Membrane Bound Polysomes	Blood	Cell Line		Uni-ZAP XR
H0249	HE7, subtracted by hybridization with E7 cDNA	Human Whole 7 Week Old Embryo	Embryo			Uni-ZAP XR
H0250	Human Activated Monocytes	Human Monocytes				Uni-ZAP XR
H0251	Human Chondrosarcoma	Human Chondrosarcoma	Cartilage		disease	Uni-ZAP XR
H0252	Human Osteosarcoma	Human Osteosarcoma	Bone		disease	Uni-ZAP XR
H0253	Human adult testis, large inserts	Human Adult Testis	Testis			Uni-ZAP XR
H0254	Breast Lymph node cDNA library	Breast Lymph Node	Lymph Node			Uni-ZAP XR
H0255	breast lymph node CDNA library	Breast Lymph Node	Lymph Node			Lambda ZAP II
H0256	HL-60, unstimulated	Human HL-60 Cells, unstimulated	Blood	Cell Line		Uni-ZAP XR
H0257	HL-60, PMA 4H	HL-60 Cells, PMA stimulated 4H	Blood	Cell Line		Uni-ZAP XR
H0261	H. cerebellum, Enzyme subtracted	Human Cerebellum	Brain			Uni-ZAP XR
H0263	human colon cancer	Human Colon Cancer	Colon		disease	Lambda ZAP II
H0264	human tonsils	Human Tonsil	Tonsil			Uni-ZAP XR
H0265	Activated T-Cell (12hs)/Thiouridine labelledEco	T-Cells	Blood	Cell Line		Uni-ZAP XR
H0266	Human Microvascular Endothelial Cells, fract. A	HMEC	Vein	Cell Line		Lambda ZAP II
H0267	Human Microvascular Endothelial Cells, fract. B	HMEC	Vein	Cell Line		Lambda ZAP II
H0268	Human Umbilical Vein Endothelial Cells, fract. A	HUVE Cells	Umbilical vein	Cell Line		Lambda ZAP II
H0269	Human Umbilical Vein Endothelial Cells, fract. B	HUVE Cells	Umbilical vein	Cell Line		Lambda ZAP II
H0270	HPAS (human pancreas, subtracted)	Human Pancreas	Pancreas			Uni-ZAP XR
H0271	Human Neutrophil, Activated	Human Neutrophil - Activated	Blood	Cell Line		Uni-ZAP XR
H0272	HUMAN TONSILS, FRACTION 2	Human Tonsil	Tonsil			Uni-ZAP XR
H0274	Human Adult Spleen, fractionII	Human Adult Spleen	Spleen			Uni-ZAP XR
H0275	Human Infant Adrenal Gland, Subtracted	Human Infant Adrenal Gland	Adrenal gland			pBluescript
H0279	K562 cells	K562 Cell line	cell line	Cell Line		ZAP Express
H0280	K562 + PMA (36 hrs)	K562 Cell line	cell line	Cell Line		ZAP Express
H0281	Lymph node, abnorm.	Lymph Node,	Lymph	Cell Line		ZAP Express

	cell line (ATCC #7225)	abnormal cell line	Node			
H0282	HBGB's differential consolidation	Human Primary Breast Cancer	Breast			Uni-ZAP XR
H0284	Human OB MG63 control fraction I	Human Osteoblastoma MG63 cell line	Bone	Cell Line		Uni-ZAP XR
H0286	Human OB MG63 treated (10 nM E2) fraction I	Human Osteoblastoma MG63 cell line	Bone	Cell Line		Uni-ZAP XR
H0288	Human OB HOS control fraction I	Human Osteoblastoma HOS cell line	Bone	Cell Line		Uni-ZAP XR
H0290	Human OB HOS treated (1 nM E2) fraction I	Human Osteoblastoma HOS cell line	Bone	Cell Line		Uni-ZAP XR
H0292	Human OB HOS treated (10 nM E2) fraction I	Human Osteoblastoma HOS cell line	Bone	Cell Line		Uni-ZAP XR
H0293	WI 38 cells					Uni-ZAP XR
H0294	Amniotic Cells - TNF induced	Amniotic Cells - TNF induced	Placenta	Cell Line		Uni-ZAP XR
H0295	Amniotic Cells - Primary Culture	Amniotic Cells - Primary Culture	Placenta	Cell Line		Uni-ZAP XR
H0298	HCBB's differential consolidation	CAMA1Ee Cell Line	Breast	Cell Line		Uni-ZAP XR
H0299	HCBA's differential consolidation	CAMA1Ee Cell Line	Breast	Cell Line		Uni-ZAP XR
H0300	CD34 positive cells (Cord Blood)	CD34 Positive Cells	Cord Blood			ZAP Express
H0305	CD34 positive cells (Cord Blood)	CD34 Positive Cells	Cord Blood			ZAP Express
H0306	CD34 depleted Buffy Coat (Cord Blood)	CD34 Depleted Buffy Coat (Cord Blood)	Cord Blood			ZAP Express
H0309	Human Chronic Synovitis	Synovium, Chronic Synovitis/ Osteoarthritis	Synovium		disease	Uni-ZAP XR
H0310	human caudate nucleus	Brain	Brain			Uni-ZAP XR
H0313	human pleural cancer	pleural cancer			disease	pBluescript
H0316	HUMAN STOMACH	Human Stomach	Stomach			Uni-ZAP XR
H0318	HUMAN B CELL LYMPHOMA	Human B Cell Lymphoma	Lymph Node		disease	Uni-ZAP XR
H0320	Human frontal cortex	Human Frontal Cortex	Brain			Uni-ZAP XR
H0321	HUMAN SCHWANOMA	Schwannoma	Nerve		disease	Uni-ZAP XR
H0327	human corpus colosum	Human Corpus Callosum	Brain			Uni-ZAP XR
H0328	human ovarian cancer	Ovarian Cancer	Ovary		disease	Uni-ZAP XR
H0329	Dermatofibrosarcoma Protuberance	Dermatofibrosarcoma Protuberans	Skin		disease	Uni-ZAP XR
H0330	HCBB's Subtractive (- mito genes)	CAMA1Ee Cell Line	Breast	Cell Line		Uni-ZAP XR
H0331	Hepatocellular Tumor	Hepatocellular Tumor	Liver		disease	Lambda ZAP II
H0333	Hemangiopericytoma	Hemangiopericytoma	Blood vessel		disease	Lambda ZAP II
H0334	Kidney cancer	Kidney Cancer	Kidney		disease	Uni-ZAP XR

H0339	Duodenum	Duodenum				Uni-ZAP XR
H0340	Corpus Callosum	Corpus Collosum-93052				Uni-ZAP XR
H0341	Bone Marrow Cell Line (RS4;11)	Bone Marrow Cell Line RS4;11	Bone Marrow	Cell Line		Uni-ZAP XR
H0343	stomach cancer (human)	Stomach Cancer - 5383A (human)			disease	Uni-ZAP XR
H0344	Adipose tissue (human)	Adipose - 6825A (human)				Uni-ZAP XR
H0345	SKIN	Skin - 4000868H	Skin			Uni-ZAP XR
H0346	Brain-medulloblastoma	Brain (Medulloblastoma)-9405C006R	Brain		disease	Uni-ZAP XR
H0349	human adult liver cDNA library	Human Adult Liver	Liver			pCMVSPORT 1
H0350	Human Fetal Liver, mixed 10 & 14 week	Human Fetal Liver, mixed 10&14 Week	Liver			Uni-ZAP XR
H0351	Glioblastoma	Glioblastoma	Brain		disease	Uni-ZAP XR
H0352	wilm's tumor	Wilm's Tumor			disease	Uni-ZAP XR
H0354	Human Leukocytes	Human Leukocytes	Blood	Cell Line		pCMVSPORT 1
H0355	Human Liver	Human Liver, normal Adult				pCMVSPORT 1
H0356	Human Kidney	Human Kidney	Kidney			pCMVSPORT 1
H0357	H. Normalized Fetal Liver, II	Human Fetal Liver	Liver			Uni-ZAP XR
H0359	KMH2 cell line	KMH2				ZAP Express
H0360	Hemangiopericytoma	Hemangiopericytoma			disease	
H0361	Human rejected kidney	Human Rejected Kidney			disease	pBluescript
H0362	HeLa cell line	HELA CELL LINE				pSport1
H0363	Human Brain Medulla, subtracted	Human Brain Medulla				pBluescript
H0364	Human Osteoclastoma, excised	Human Osteoclastoma			disease	pBluescript
H0365	Osteoclastoma-normalized B	Human Osteoclastoma			disease	Uni-ZAP XR
H0366	L428 cell line	L428				ZAP Express
H0369	H. Atrophic Endometrium	Atrophic Endometrium and myometrium				Uni-ZAP XR
H0370	H. Lymph node breast Cancer	Lymph node with Met. Breast Cancer			disease	Uni-ZAP XR
H0372	Human Testes	Human Testes	Testis			pCMVSPORT 1
H0373	Human Heart	Human Adult Heart	Heart			pCMVSPORT 1
H0374	Human Brain	Human Brain				pCMVSPORT 1
H0375	Human Lung	Human Lung				pCMVSPORT 1
H0376	Human Spleen	Human Adult Spleen	Spleen			pCMVSPORT 1
H0379	Human Tongue, frac 1	Human Tongue				pSport1
H0380	Human Tongue, frac 2	Human Tongue				pSport1
H0381	Bone Cancer	Bone Cancer			disease	Uni-ZAP XR
H0383	Human Prostate BPH, re-excision	Human Prostate BPH				Uni-ZAP XR
H0384	Brain, Kozak	Human Brain				pCMVSPORT 1
H0385	H. Leukocytes, Kozak	Human Leukocytes	Blood	Cell Line		pCMVSPORT 1
H0386	Leukocyte and Lung; 4 screens	Human Leukocytes	Blood	Cell Line		pCMVSPORT 1
H0388	Human Rejected	Human Rejected			disease	pBluescript

	Kidney, 704 re-excision	Kidney				
H0390	Human Amygdala Depression, re-excision	Human Amygdala Depression			disease	pBluescript
H0391	H. Meningioma, M6	Human Meningioma	brain			pSport1
H0392	H. Meningioma, M1	Human Meningioma	brain			pSport1
H0393	Fetal Liver, subtraction II	Human Fetal Liver	Liver			pBluescript
H0394	A-14 cell line	Redd-Sternberg cell				ZAP Express
H0395	A1-CELL LINE	Redd-Sternberg cell				ZAP Express
H0396	L1 Cell line	Redd-Sternberg cell				ZAP Express
H0398	Human Newborn Bladder	Human Newborn Bladder				pBluescript
H0399	Human Kidney Cortex, re-rescue	Human Kidney Cortex				Lambda ZAP II
H0400	Human Striatum Depression, re-rescue	Human Brain, Striatum Depression	Brain			Lambda ZAP II
H0401	Human Pituitary, subtracted V	Human Pituitary				pBluescript
H0402	CD34 depleted Buffy Coat (Cord Blood), re-excision	CD34 Depleted Buffy Coat (Cord Blood)	Cord Blood			ZAP Express
H0403	H. Umbilical Vein Endothelial Cells, IL4 induced	HUVE Cells	Umbilical vein	Cell Line		Uni-ZAP XR
H0404	H. Umbilical Vein endothelial cells, uninduced	HUVE Cells	Umbilical vein	Cell Line		Uni-ZAP XR
H0405	Human Pituitary, subtracted VI	Human Pituitary				pBluescript
H0406	H Amygdala Depression, subtracted	Human Amygdala Depression				Uni-ZAP XR
H0408	Human kidney Cortex, subtracted	Human Kidney Cortex				pBluescript
H0409	H. Striatum Depression, subtracted	Human Brain, Striatum Depression	Brain			pBluescript
H0410	H. Male bladder, adult	H Male Bladder, Adult	Bladder			pSport1
H0411	H Female Bladder, Adult	Human Female Adult Bladder	Bladder			pSport1
H0412	Human umbilical vein endothelial cells, IL-4 induced	HUVE Cells	Umbilical vein	Cell Line		pSport1
H0413	Human Umbilical Vein Endothelial Cells, uninduced	HUVE Cells	Umbilical vein	Cell Line		pSport1
H0414	Ovarian Tumor I, OV5232	Ovarian Tumor, OV5232	Ovary		disease	pSport1
H0415	H. Ovarian Tumor, II, OV5232	Ovarian Tumor, OV5232	Ovary		disease	pCMVSPORT 2.0
H0416	Human Neutrophils, Activated, re-excision	Human Neutrophil - Activated	Blood	Cell Line		pBluescript
H0417	Human Pituitary, subtracted VIII	Human Pituitary				pBluescript
H0418	Human Pituitary, subtracted VII	Human Pituitary				pBluescript
H0419	Bone Cancer, re-excision	Bone Cancer				Uni-ZAP XR
H0421	Human Bone Marrow,	Bone Marrow				pBluescript



	re-excision					
H0422	T-Cell PHA 16 hrs	T-Cells	Blood	Cell Line		pSport1
H0423	T-Cell PHA 24 hrs	T-Cells	Blood	Cell Line		pSport1
H0424	Human Pituitary, subt IX	Human Pituitary				pBluescript
H0427	Human Adipose	Human Adipose, left hiplipoma				pSport1
H0428	Human Ovary	Human Ovary Tumor	Ovary			pSport1
H0429	K562 + PMA (36 hrs), re-excision	K562 Cell line	cell line	Cell Line		ZAP Express
H0431	H. Kidney Medulla, re-excision	Kidney medulla	Kidney			pBluescript
H0432	H. Kidney Pyramid	Kidney pyramids	Kidney			pBluescript
H0433	Human Umbilical Vein Endothelial cells, frac B, re-excision	HUVE Cells	Umbilical vein	Cell Line		pBluescript
H0434	Human Brain, striatum, re-excision	Human Brain, Striatum				pBluescript
H0435	Ovarian Tumor 10-3-95	Ovarian Tumor, OV350721	Ovary			pCMVSPORT 2.0
H0436	Resting T-Cell Library, II	T-Cells	Blood	Cell Line		pSport1
H0437	H Umbilical Vein Endothelial Cells, frac A, re-excision	HUVE Cells	Umbilical vein	Cell Line		Lambda ZAP II
H0438	H. Whole Brain #2, re-excision	Human Whole Brain #2				ZAP Express
H0439	Human Eosinophils	Eosinophils				pBluescript
H0440	FGF enriched mixed library	Mixed libraries				pCMVSPORT 1
H0441	H. Kidney Cortex, subtracted	Kidney cortex	Kidney			pBluescript
H0442	H. Striatum Depression, subt II	Human Brain, Striatum Depression	Brain			pBluescript
H0443	H. Adipose, subtracted	Human Adipose, left hiplipoma				pSport1
H0444	Spleen metastatic melanoma	Spleen, Metastatic malignant melanoma	Spleen		disease	pSport1
H0445	Spleen, Chronic lymphocytic leukemia	Human Spleen, CLL	Spleen		disease	pSport1
H0447	Salivary gland, re-excision	Human Salivary Gland	Salivary gland			Uni-ZAP XR
H0448	Salivary gland, subtracted	Human Salivary Gland	Salivary gland			Lambda ZAP II
H0449	CD34+ cell, I	CD34 positive cells				pSport1
H0450	CD34+cells, II	CD34 positive cells				pCMVSPORT 2.0
H0453	H. Kidney Pyramid, subtracted	Kidney pyramids	Kidney			pBluescript
H0455	H. Striatum Depression, subt	Human Brain, Striatum Depression	Brain			pBluescript
H0457	Human Eosinophils	Human Eosinophils				pSport1
H0458	CD34+ cell, I, frac II	CD34 positive cells				pSport1
H0459	CD34+cells, II, FRACTION 2	CD34 positive cells				pCMVSPORT 2.0
H0461	H. Kidney Medulla, subtracted	Kidney medulla	Kidney			pBluescript

H0462	H. Amygdala Depression, subtracted		Brain			pBluescript
H0477	Human Tonsil, Lib 3	Human Tonsil	Tonsil			pSport1
H0478	Salivary Gland, Lib 2	Human Salivary Gland	Salivary gland			pSport1
H0479	Salivary Gland, Lib 3	Human Salivary Gland	Salivary gland			pSport1
H0483	Breast Cancer cell line, MDA 36	Breast Cancer Cell line, MDA 36				pSport1
H0484	Breast Cancer Cell line, angiogenic	Breast Cancer Cell line, Angiogenic, 36T3				pSport1
H0485	Hodgkin's Lymphoma I	Hodgkin's Lymphoma I			disease	pCMVSPORT 2.0
H0486	Hodgkin's Lymphoma II	Hodgkin's Lymphoma II			disease	pCMVSPORT 2.0
H0487	Human Tonsils, lib I	Human Tonsils				pCMVSPORT 2.0
H0488	Human Tonsils, Lib 2	Human Tonsils				pCMVSPORT 2.0
H0489	Crohn's Disease	Ileum	Intestine		disease	pSport1
H0490	HL-60, untreated, subtracted	Human HL-60 Cells, unstimulated	Blood	Cell Line		Uni-ZAP XR
H0491	HL-60, PMA 4H, subtracted	HL-60 Cells, PMA stimulated 4H	Blood	Cell Line		Uni-ZAP XR
H0492	HL-60, RA 4h, Subtracted	HL-60 Cells, RA stimulated for 4H	Blood	Cell Line		Uni-ZAP XR
H0494	Keratinocyte	Keratinocyte				pCMVSPORT 2.0
H0497	HEL cell line	HEL cell line		HEL 92.1.7		pSport1
H0504	CAPFINDER, Crohn's Disease, lib 2	Ileum	Intestine		disease	pCMVSPORT 2.0
H0505	Human Astrocyte	Human Astrocyte				pSport1
H0506	Ulcerative Colitis	Colon	Colon			pSport1
H0509	Liver, Hepatoma	Human Liver, Hepatoma, patient 8	Liver		disease	pCMVSPORT 3.0
H0510	Human Liver, normal	Human Liver, normal, Patient # 8	Liver			pCMVSPORT 3.0
H0512	Keratinocyte, lib 3	Keratinocyte				pCMVSPORT 2.0
H0517	Nasal polyps	Nasal polyps				pCMVSPORT 2.0
H0518	pBMC stimulated w/ poly I/C	pBMC stimulated with poly I/C				pCMVSPORT 3.0
H0519	NTERA2, control	NTERA2, Teratocarcinoma cell line				pCMVSPORT 3.0
H0520	NTERA2 + retinoic acid, 14 days	NTERA2, Teratocarcinoma cell line				pSport1
H0521	Primary Dendritic Cells, lib 1	Primary Dendritic cells				pCMVSPORT 3.0
H0522	Primary Dendritic cells, frac 2	Primary Dendritic cells				pCMVSPORT 3.0
H0523	Primary Dendritic cells, CapFinder2, frac 1	Primary Dendritic cells				pSport1
H0524	Primary Dendritic	Primary Dendritic				pSport1

	Cells, CapFinder, frac 2	cells				
H0525	PCR, pBMC I/C treated	pBMC stimulated with poly I/C				PCRII
H0529	Myeloid Progenitor Cell Line	TF-1 Cell Line; Myeloid progenitor cell line				pCMVSPORT 3.0
H0530	Human Dermal Endothelial Cells, untreated	Human Dermal Endothelial Cells; untreated				pSport1
H0533	Human Stromal endometrial fibroblasts, treated w/ estradiol	Human Stromal endometrial fibroblasts, treated with				pSport1
H0534	Human Stromal endometrial fibroblasts, treated with progesterone	Human Stromal endometrial fibroblasts, treated w/				pSport1
H0535	Human ovary tumor cell OV350721	Ovarian Tumor, OV350721	Ovary		disease	pSport1
H0537	H. Primary Dendritic Cells, lib 3	Primary Dendritic cells				pCMVSPORT 2.0
H0538	Merkel Cells	Merkel cells	Lymph node			pSport1
H0539	Pancreas Islet Cell Tumor	Pancreas Islet Cell Tumour	Pancreas		disease	pSport1
H0540	Skin, burned	Skin, leg burned	Skin			pSport1
H0542	T Cell helper I	Helper T cell				pCMVSPORT 3.0
H0543	T cell helper II	Helper T cell				pCMVSPORT 3.0
H0544	Human endometrial stromal cells	Human endometrial stromal cells				pCMVSPORT 3.0
H0545	Human endometrial stromal cells-treated with progesterone	Human endometrial stromal cells-treated with proge				pCMVSPORT 3.0
H0546	Human endometrial stromal cells-treated with estradiol	Human endometrial stromal cells-treated with estra				pCMVSPORT 3.0
H0547	NTERA2 teratocarcinoma cell line+retinoic acid (14 days)	NTERA2, Teratocarcinoma cell line				pSport1
H0549	H. Epididymus, caput & corpus	Human Epididymus, caput and corpus				Uni-ZAP XR
H0550	H. Epididymus, cauda	Human Epididymus, cauda				Uni-ZAP XR
H0551	Human Thymus Stromal Cells	Human Thymus Stromal Cells				pCMVSPORT 3.0
H0552	Signal trap, Femur Bone Marrow, pooled	Femur Bone marrow, pooled from 8 male/female				Other
H0553	Human Placenta	Human Placenta				pCMVSPORT 3.0
H0555	Rejected Kidney, lib 4	Human Rejected Kidney	Kidney		disease	pCMVSPORT 3.0
H0556	Activated T-cell(12h)/Thiouridine-re-excision	T-Cells	Blood	Cell Line		Uni-ZAP XR

H0559	HL-60, PMA 4H, re-excision	HL-60 Cells, PMA stimulated 4H	Blood	Cell Line		Uni-ZAP XR
H0560	KMH2	KMH2				pCMVSPORT 3.0
H0561	L428	L428				pCMVSPORT 3.0
H0562	Human Fetal Brain, normalized c5-11-26	Human Fetal Brain				pCMVSPORT 2.0
H0563	Human Fetal Brain, normalized 50021F	Human Fetal Brain				pCMVSPORT 2.0
H0564	Human Fetal Brain, normalized C5001F	Human Fetal Brain				pCMVSPORT 2.0
H0565	Human Fetal Brain, normalized 100024F	Human Fetal Brain				pCMVSPORT 2.0
H0566	Human Fetal Brain, normalized c50F	Human Fetal Brain				pCMVSPORT 2.0
H0567	Human Fetal Brain, normalized A5002F	Human Fetal Brain				pCMVSPORT 2.0
H0569	Human Fetal Brain, normalized CO	Human Fetal Brain				pCMVSPORT 2.0
H0570	Human Fetal Brain, normalized C500H	Human Fetal Brain				pCMVSPORT 2.0
H0571	Human Fetal Brain, normalized C500HE	Human Fetal Brain				pCMVSPORT 2.0
H0572	Human Fetal Brain, normalized AC5002	Human Fetal Brain				pCMVSPORT 2.0
H0574	Hepatocellular Tumor; re-excision	Hepatocellular Tumor	Liver		disease	Lambda ZAP II
H0575	Human Adult Pulmonary; re-excision	Human Adult Pulmonary	Lung			Uni-ZAP XR
H0576	Resting T-Cell; re-excision	T-Cells	Blood	Cell Line		Lambda ZAP II
H0578	Human Fetal Thymus	Fetal Thymus	Thymus			pSPORT1
H0579	Pericardium	Pericardium	Heart			pSPORT1
H0580	Dendritic cells, pooled	Pooled dendritic cells				pCMVSPORT 3.0
H0581	Human Bone Marrow, treated	Human Bone Marrow	Bone Marrow			pCMVSPORT 3.0
H0583	B Cell lymphoma	B Cell Lymphoma	B Cell		disease	pCMVSPORT 3.0
H0584	Activated T-cells, 24 hrs, re-excision	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0585	Activated T-Cells, 12 hrs, re-excision	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0586	Healing groin wound, 6.5 hours post incision	healing groin wound, 6.5 hours post incision - 2/	groin		disease	pCMVSPORT 3.0
H0587	Healing groin wound; 7.5 hours post incision	Groin-2/19/97	groin		disease	pCMVSPORT 3.0
H0589	CD34 positive cells (cord blood), re-ex	CD34 Positive Cells	Cord Blood			ZAP Express
H0590	Human adult small intestine, re-excision	Human Adult Small Intestine	Small Int.			Uni-ZAP XR
H0591	Human T-cell lymphoma; re-excision	T-Cell Lymphoma	T-Cell		disease	Uni-ZAP XR
H0592	Healing groin wound - zero hr post-incision (control)	HGS wound healing project; abdomen			disease	pCMVSPORT 3.0
H0593	Olfactory	Olfactory epithelium				pCMVSPORT

	epithelium;nasalcavity	from roof of left nasal cavity				3.0
H0594	Human Lung Cancer;re-excision	Human Lung Cancer	Lung		disease	Lambda ZAP II
H0595	Stomach cancer (human);re-excision	Stomach Cancer - 5383A (human)			disease	Uni-ZAP XR
H0596	Human Colon Cancer;re-excision	Human Colon Cancer	Colon			Lambda ZAP II
H0597	Human Colon; re-excision	Human Colon				Lambda ZAP II
H0598	Human Stomach;re-excision	Human Stomach	Stomach			Uni-ZAP XR
H0599	Human Adult Heart;re-excision	Human Adult Heart	Heart			Uni-ZAP XR
H0600	Healing Abdomen wound;70&90 min post incision	Abdomen			disease	pCMVSPORT 3.0
H0601	Healing Abdomen Wound;15 days post incision	Abdomen			disease	pCMVSPORT 3.0
H0602	Healing Abdomen Wound;21&29 days post incision	Abdomen			disease	pCMVSPORT 3.0
H0604	Human Pituitary, re-excision	Human Pituitary				pBluescript
H0606	Human Primary Breast Cancer;re-excision	Human Primary Breast Cancer	Breast		disease	Uni-ZAP XR
H0607	H.Leukocytes, normalized cot 50A3	H.Leukocytes				pCMVSPORT 1
H0608	H. Leukocytes, control	H.Leukocytes				pCMVSPORT 1
H0609	H. Leukocytes, normalized cot > 500A	H.Leukocytes				pCMVSPORT 1
H0610	H. Leukocytes, normalized cot 5A	H.Leukocytes				pCMVSPORT 1
H0611	H. Leukocytes, normalized cot 500 B	H.Leukocytes				pCMVSPORT 1
H0612	H.Leukocytes, normalized cot 50 B	H.Leukocytes				pCMVSPORT 1
H0613	H.Leukocytes, normalized cot 5B	H.Leukocytes				pCMVSPORT 1
H0614	H. Leukocytes, normalized cot 500 A	H.Leukocytes				pCMVSPORT 1
H0615	Human Ovarian Cancer Reexcision	Ovarian Cancer	Ovary		disease	Uni-ZAP XR
H0616	Human Testes, Reexcision	Human Testes	Testis			Uni-ZAP XR
H0617	Human Primary Breast Cancer Reexcision	Human Primary Breast Cancer	Breast		disease	Uni-ZAP XR
H0618	Human Adult Testes, Large Inserts, Reexcision	Human Adult Testis	Testis			Uni-ZAP XR
H0619	Fetal Heart	Human Fetal Heart	Heart			Uni-ZAP XR
H0620	Human Fetal Kidney; Reexcision	Human Fetal Kidney	Kidney			Uni-ZAP XR
H0622	Human Pancreas Tumor; Reexcision	Human Pancreas Tumor	Pancreas		disease	Uni-ZAP XR
H0623	Human Umbilical Vein; Reexcision	Human Umbilical Vein Endothelial Cells	Umbilical vein			Uni-ZAP XR

H0624	12 Week Early Stage Human II; Reexcision	Twelve Week Old Early Stage Human	Embryo			Uni-ZAP XR
H0625	Ku 812F Basophils Line	Ku 812F Basophils				pSport1
H0626	Saos2 Cells; Untreated	Saos2 Cell Line; Untreated				pSport1
H0627	Saos2 Cells; Vitamin D3 Treated	Saos2 Cell Line; Vitamin D3 Treated				pSport1
H0628	Human Pre-Differentiated Adipocytes	Human Pre-Differentiated Adipocytes				Uni-ZAP XR
H0629	Human Leukocyte, control #2	Human Normalized leukocyte				pCMVSPORT 1
H0630	Human Leukocytes, normalized control #4	Human Normalized leukocyte				pCMVSPORT 1
H0631	Saos2, Dexamethosome Treated	Saos2 Cell Line; Dexamethosome Treated				pSport1
H0632	Hepatocellular Tumor; re-excision	Hepatocellular Tumor	Liver			Lambda ZAP II
H0633	Lung Carcinoma A549 TNFalpha activated	TNFalpha activated A549--Lung Carcinoma			disease	pSport1
H0634	Human Testes Tumor, re-excision	Human Testes Tumor	Testis		disease	Uni-ZAP XR
H0635	Human Activated T-Cells, re-excision	Activated T-Cells	Blood	Cell Line		Uni-ZAP XR
H0637	Dendritic Cells From CD34 Cells	Dendritic cells from CD34 cells				pSport1
H0638	CD40 activated monocyte dendritic cells	CD40 activated monocyte dendritic cells				pSport1
H0639	Ficoll Human Stromal Cells, 5Fu treated	Ficoll Human Stromal Cells, 5Fu treated				Other
H0640	Ficoll Human Stromal Cells, Untreated	Ficoll Human Stromal Cells, Untreated				Other
H0641	LPS activated derived dendritic cells	LPS activated monocyte derived dendritic cells				pSport1
H0642	Hep G2 Cells, lambda library	Hep G2 Cells				Other
H0643	Hep G2 Cells, PCR library	Hep G2 Cells				Other
H0644	Human Placenta (re-excision)	Human Placenta	Placenta			Uni-ZAP XR
H0645	Fetal Heart, re-excision	Human Fetal Heart	Heart			Uni-ZAP XR
H0646	Lung, Cancer (4005313 A3): Invasive Poorly Differentiated Lung Adenocarcinoma,	Metastatic squamous cell lung carcinoma, poorly di				pSport1
H0647	Lung, Cancer (4005163 B7): Invasive, Poorly Diff. Adenocarcinoma, Metastatic	Invasive poorly differentiated lung adenocarcinoma			disease	pSport1
H0648	Ovary, Cancer:	Papillary Cstic			disease	pSport1

	(4004562 B6) Papillary Serous Cystic Neoplasm, Low Malignant Pot	neoplasm of low malignant potentia				
H0649	Lung, Normal: (4005313 B1)	Normal Lung				pSport1
H0650	B-Cells	B-Cells				pCMVSPORT 3.0
H0651	Ovary, Normal: (9805C040R)	Normal Ovary				pSport1
H0652	Lung, Normal: (4005313 B1)	Normal Lung				pSport1
H0653	Stromal Cells	Stromal Cells				pSport1
H0654	Lung, Cancer: (4005313 A3) Invasive Poorly-differentiated Metastatic lung adenoc	Metastatic Squamous cell lung Carcinoma poorly dif				Other
H0656	B-cells (unstimulated)	B-cells (unstimulated)				pSport1
H0657	B-cells (stimulated)	B-cells (stimulated)				pSport1
H0658	Ovary, Cancer (9809C332): Poorly differentiated adenocarcinoma	9809C332- Poorly differentiate	Ovary & Fallopia n Tubes		disease	pSport1
H0659	Ovary, Cancer (15395A1F): Grade II Papillary Carcinoma	Grade II Papillary Carcinoma, Ovary	Ovary		disease	pSport1
H0660	Ovary, Cancer: (15799A1F) Poorly differentiated carcinoma	Poorly differentiated carcinoma, ovary			disease	pSport1
H0661	Breast, Cancer: (4004943 A5)	Breast cancer			disease	pSport1
H0662	Breast, Normal: (4005522B2)	Normal Breast - #4005522(B2)	Breast			pSport1
H0663	Breast, Cancer: (4005522 A2)	Breast Cancer - #4005522(A2)	Breast		disease	pSport1
H0664	Breast, Cancer: (9806C012R)	Breast Cancer	Breast		disease	pSport1
H0665	Stromal cells 3.88	Stromal cells 3.88				pSport1
H0666	Ovary, Cancer: (4004332 A2)	Ovarian Cancer, Sample #4004332A2			disease	pSport1
H0667	Stromal cells(HBM3.18)	Stromal cell(HBM 3.18)				pSport1
H0668	stromal cell clone 2.5	stromal cell clone 2.5				pSport1
H0669	Breast, Cancer: (4005385 A2)	Breast Cancer (4005385A2)	Breast			pSport1
H0670	Ovary, Cancer(4004650 A3): Well-Differentiated Micropapillary Serous Carcinoma	Ovarian Cancer - 4004650A3				pSport1
H0671	Breast, Cancer: (9802C02OE)	Breast Cancer- Sample # 9802C02OE				pSport1
H0672	Ovary, Cancer: (4004576 A8)	Ovarian Cancer(4004576A8)	Ovary			pSport1
H0673	Human Prostate	Human Prostate	Prostate			Uni-ZAP XR

	Cancer, Stage B2; re-excision	Cancer, stage B2				
H0674	Human Prostate Cancer, Stage C; re-excision	Human Prostate Cancer, stage C	Prostate			Uni-ZAP XR
H0675	Colon, Cancer: (9808C064R)	Colon Cancer 9808C064R				pCMVSPORT 3.0
H0676	Colon, Cancer: (9808C064R)-total RNA	Colon Cancer 9808C064R				pCMVSPORT 3.0
H0677	TNFR degenerate oligo	B-Cells				PCRII
H0678	screened clones from placental library	Placenta	Placenta			Other
H0682	Serous Papillary Adenocarcinoma	serous papillary adenocarcinoma (9606G304SPA3B)				pCMVSPORT 3.0
H0683	Ovarian Serous Papillary Adenocarcinoma	Serous papillary adenocarcinoma, stage 3C (9804G01)				pCMVSPORT 3.0
H0684	Serous Papillary Adenocarcinoma	Ovarian Cancer-9810G606	Ovaries			pCMVSPORT 3.0
H0685	Adenocarcinoma of Ovary, Human Cell Line, # OVCAR-3	Adenocarcinoma of Ovary, Human Cell Line, # OVCAR-				pCMVSPORT 3.0
H0686	Adenocarcinoma of Ovary, Human Cell Line	Adenocarcinoma of Ovary, Human Cell Line, # SW-626				pCMVSPORT 3.0
H0687	Human normal ovary(#9610G215)	Human normal ovary(#9610G215)	Ovary			pCMVSPORT 3.0
H0688	Human Ovarian Cancer(#9807G017)	Human Ovarian cancer(#9807G017), mRNA from Maura Ru				pCMVSPORT 3.0
H0689	Ovarian Cancer	Ovarian Cancer, #9806G019				pCMVSPORT 3.0
H0690	Ovarian Cancer, #9702G001	Ovarian Cancer, #9702G001				pCMVSPORT 3.0
H0691	Normal Ovary, #9710G208	normal ovary, #9710G208				pCMVSPORT 3.0
H0692	BLyS Receptor from Expression Cloning	B Cell Lymphoma	B Cell			pCMVSPORT 3.0
H0693	Normal Prostate #ODQ3958EN	Normal Prostate Tissue # ODQ3958EN				pCMVSPORT 3.0
H0694	Prostate gland adenocarcinoma	Prostate gland, adenocarcinoma, mod/diff, gleason	prostate gland			pCMVSPORT 3.0
H0695	mononucleocytes from patient	mononucleocytes from patient at Shady Grove Hospit				pCMVSPORT 3.0
N0006	Human Fetal Brain	Human Fetal Brain				
N0007	Human Hippocampus	Human Hippocampus				
N0008	Human Hippocampus, subtracted	Human Hippocampus				
N0009	Human Hippocampus, prescreened	Human Hippocampus				
N0011	Human Brain	Human Brain				
S0001	Brain frontal cortex	Brain frontal cortex	Brain			Lambda ZAP



						II
S0002	Monocyte activated	Monocyte-activated	blood	Cell Line		Uni-ZAP XR
S0003	Human Osteoclastoma	Osteoclastoma	bone		disease	Uni-ZAP XR
S0004	Prostate	Prostate BPH	Prostate			Lambda ZAP II
S0005	Heart	Heart-left ventricle	Heart			pCDNA
S0006	Neuroblastoma	Human Neural Blastoma			disease	pCDNA
S0007	Early Stage Human Brain	Human Fetal Brain				Uni-ZAP XR
S0008	Osteoclastoma	Osteoclastoma	bone		disease	Uni-ZAP XR
S0010	Human Amygdala	Amygdala				Uni-ZAP XR
S0011	STROMAL - OSTEOCLASTOMA	Osteoclastoma	bone		disease	Uni-ZAP XR
S0013	Prostate	Prostate	prostate			Uni-ZAP XR
S0014	Kidney Cortex	Kidney cortex	Kidney			Uni-ZAP XR
S0015	Kidney medulla	Kidney medulla	Kidney			Uni-ZAP XR
S0016	Kidney Pyramids	Kidney pyramids	Kidney			Uni-ZAP XR
S0021	Whole brain	Whole brain	Brain			ZAP Express
S0022	Human Osteoclastoma Stromal Cells - unamplified	Osteoclastoma Stromal Cells				Uni-ZAP XR
S0023	Human Kidney Cortex - unamplified	Human Kidney Cortex				
S0024	Human Kidney Medulla - unamplified	Human Kidney Medulla				
S0025	Human Kidney Pyramids - unamplified	Human Kidney Pyramids				
S0026	Stromal cell TF274	stromal cell	Bone marrow	Cell Line		Uni-ZAP XR
S0027	Smooth muscle, serum treated	Smooth muscle	Pulmonary artery	Cell Line		Uni-ZAP XR
S0028	Smooth muscle, control	Smooth muscle	Pulmonary artery	Cell Line		Uni-ZAP XR
S0029	brain stem	Brain stem	brain			Uni-ZAP XR
S0030	Brain pons	Brain Pons	Brain			Uni-ZAP XR
S0031	Spinal cord	Spinal cord	spinal cord			Uni-ZAP XR
S0032	Smooth muscle-ILb induced	Smooth muscle	Pulmonary artery	Cell Line		Uni-ZAP XR
S0035	Brain medulla oblongata	Brain medulla oblongata	Brain			Uni-ZAP XR
S0036	Human Substantia Nigra	Human Substantia Nigra				Uni-ZAP XR
S0037	Smooth muscle, IL1b induced	Smooth muscle	Pulmonary artery	Cell Line		Uni-ZAP XR
S0038	Human Whole Brain #2 - Oligo dT > 1.5Kb	Human Whole Brain #2				ZAP Express
S0039	Hypothalamus	Hypothalamus	Brain			Uni-ZAP XR
S0040	Adipocytes	Human Adipocytes from Osteoclastoma				Uni-ZAP XR
S0042	Testes	Human Testes				ZAP Express
S0044	Prostate BPH	prostate BPH	Prostate		disease	Uni-ZAP XR
S0045	Endothelial cells-control	Endothelial cell	endothelial cell-lung	Cell Line		Uni-ZAP XR
S0046	Endothelial-induced	Endothelial cell	endothelial cell-lung	Cell Line		Uni-ZAP XR

S0048	Human Hypothalamus, Alzheimer's	Human Hypothalamus, Alzheimer's			disease	Uni-ZAP XR
S0049	Human Brain, Striatum	Human Brain, Striatum				Uni-ZAP XR
S0050	Human Frontal Cortex, Schizophrenia	Human Frontal Cortex, Schizophrenia			disease	Uni-ZAP XR
S0051	Human Hypothalamus, Schizophrenia	Human Hypothalamus, Schizophrenia			disease	Uni-ZAP XR
S0052	neutrophils control	human neutrophils	blood	Cell Line		Uni-ZAP XR
S0053	Neutrophils IL-1 and LPS induced	human neutrophil induced	blood	Cell Line		Uni-ZAP XR
S0106	STRIATUM DEPRESSION		BRAIN		disease	Uni-ZAP XR
S0110	Brain Amygdala Depression		Brain		disease	Uni-ZAP XR
S0112	Hypothalamus		Brain			Uni-ZAP XR
S0114	Anergic T-cell	Anergic T-cell		Cell Line		Uni-ZAP XR
S0116	Bone marrow	Bone marrow	Bone marrow			Uni-ZAP XR
S0118	Smooth muscle control 2	Smooth muscle	Pulmonary artery	Cell Line		Uni-ZAP XR
S0122	Osteoclastoma-normalized A	Osteoclastoma	bone		disease	pBluescript
S0124	Smooth muscle-edited A	Smooth muscle	Pulmonary artery	Cell Line		Uni-ZAP XR
S0126	Osteoblasts	Osteoblasts	Knee	Cell Line		Uni-ZAP XR
S0132	Epithelial-TNF $\alpha$ and INF induced	Airway Epithelial				Uni-ZAP XR
S0134	Apoptotic T-cell	apoptotic cells		Cell Line		Uni-ZAP XR
S0136	PERM TF274	stromal cell	Bone marrow	Cell Line		Lambda ZAP II
S0140	eosinophil-IL5 induced	eosinophil	lung	Cell Line		Uni-ZAP XR
S0142	Macrophage-oxLDL	macrophage-oxidized LDL treated	blood	Cell Line		Uni-ZAP XR
S0144	Macrophage (GM-CSF treated)	Macrophage (GM-CSF treated)				Uni-ZAP XR
S0146	prostate-edited	prostate BPH	Prostate			Uni-ZAP XR
S0148	Normal Prostate	Prostate	prostate			Uni-ZAP XR
S0150	LNCAP prostate cell line	LNCAP Cell Line	Prostate	Cell Line		Uni-ZAP XR
S0152	PC3 Prostate cell line	PC3 prostate cell line				Uni-ZAP XR
S0168	Prostate/LNCAP, subtraction I	PC3 prostate cell line				pBluescript
S0174	Prostate-BPH subtracted II	Human Prostate BPH				pBluescript
S0176	Prostate, normal, subtraction I	Prostate	prostate			Uni-ZAP XR
S0180	Bone Marrow Stroma, TNF&LPS ind	Bone Marrow Stroma, TNF & LPS induced			disease	Uni-ZAP XR
S0182	Human B Cell 8866	Human B- Cell 8866				Uni-ZAP XR
S0188	Prostate,BPH, Lib 2	Human Prostate BPH			disease	pSport1
S0190	Prostate BPH,Lib 2,	Human Prostate				pSport1

	subtracted	BPH				
S0192	Synovial Fibroblasts (control)	Synovial Fibroblasts				pSport1
S0194	Synovial hypoxia	Synovial Fibroblasts				pSport1
S0196	Synovial IL-1/TNF stimulated	Synovial Fibroblasts				pSport1
S0206	Smooth Muscle-HASTE normalized	Smooth muscle	Pulmonary artery	Cell Line		pBluescript
S0208	Mesangial cell, frac 1	Mesangial cell				pSport1
S0210	Mesangial cell, frac 2	Mesangial cell				pSport1
S0212	Bone Marrow Stromal Cell, untreated	Bone Marrow Stromal Cell, untreated				pSport1
S0214	Human Osteoclastoma, re-excision	Osteoclastoma	bone		disease	Uni-ZAP XR
S0216	Neutrophils IL-1 and LPS induced	human neutrophil induced	blood	Cell Line		Uni-ZAP XR
S0218	Apoptotic T-cell, re-excision	apoptotic cells		Cell Line		Uni-ZAP XR
S0220	H. hypothalamus, frac A; re-excision	Hypothalamus	Brain			ZAP Express
S0222	H. Frontal cortex, epileptic; re-excision	H. Brain, Frontal Cortex, Epileptic	Brain		disease	Uni-ZAP XR
S0240	PYGD	PYGD				PCRII
S0242	Synovial Fibroblasts (III/TNF), subt	Synovial Fibroblasts				pSport1
S0250	Human Osteoblasts II	Human Osteoblasts	Femur		disease	pCMVSPORT 2.0
S0256	7TM-PHMIX	PBLS, 7TM receptor enriched				PCRII
S0258	7TM-PNMIX	PBLS, 7TM receptor enriched				PCRII
S0260	Spinal Cord, re-excision	Spinal cord	spinal cord			Uni-ZAP XR
S0262	PYCS	Human Antrum (PY CS)				PCRII
S0270	PTMIX	PTMIX (Human Thymus)	Thymus			PCRII
S0276	Synovial hypoxia-RSF subtracted	Synovial fibroblasts (rheumatoid)	Synovial tissue			pSport1
S0278	H Macrophage (GM-CSF treated), re-excision	Macrophage (GM-CSF treated)				Uni-ZAP XR
S0280	Human Adipose Tissue, re-excision	Human Adipose Tissue				Uni-ZAP XR
S0282	Brain Frontal Cortex, re-excision	Brain frontal cortex	Brain			Lambda ZAP II
S0290	H7TMCTB (Brain)	7TMCTB (Brain)	Kidney			PCRII
S0292	Osteoarthritis (OA-4)	Human Osteoarthritic Cartilage	Bone		disease	pSport1
S0294	Larynx tumor	Larynx tumor	Larynx, vocal cord		disease	pSport1
S0296	Normal lung	Normal lung	Lung			pSport1
S0298	Bone marrow stroma, treated	Bone marrow stroma, treated SB	Bone marrow			pSport1
S0300	Frontal	Frontal Lobe	Brain			Uni-ZAP XR

	lobe,dementia;re-excision	dementia/Alzheimer's				
S0306	Larynx normal #10 261-273	Larynx normal				pSport1
S0308	Spleen/normal	Spleen normal				pSport1
S0310	Normal trachea	Normal trachea				pSport1
S0312	Human osteoarthritic;fraction II	Human osteoarthritic cartilage			disease	pSport1
S0314	Human osteoarthritis;fraction I	Human osteoarthritic cartilage			disease	pSport1
S0316	Human Normal Cartilage,Fraction I	Human Normal Cartilage				pSport1
S0318	Human Normal Cartilage Fraction II	Human Normal Cartilage				pSport1
S0320	Human Larynx	Larynx	Epiglottis			pSport1
S0322	Siebben Polyposis	Siebben Polyposis				pSport1
S0324	Human Brain	Brain	Cerebellum			pSport1
S0326	Mammary Gland	Mammary Gland	Whole mammary gland			pSport1
S0328	Palate carcinoma	Palate carcinoma	Uvula		disease	pSport1
S0330	Palate normal	Palate normal	Uvula			pSport1
S0332	Pharynx carcinoma	Pharynx carcinoma	Hypopharynx			pSport1
S0334	Human Normal Cartilage Fraction III	Human Normal Cartilage				pSport1
S0336	Human Normal Cartilage Fraction IV	Human Normal Cartilage				pSport1
S0338	Human Osteoarthritic Cartilage Fraction III	Human osteoarthritic cartilage			disease	pSport1
S0340	Human Osteoarthritic Cartilage Fraction IV	Human osteoarthritic cartilage			disease	pSport1
S0342	Adipocytes;re-excision	Human Adipocytes from Osteoclastoma				Uni-ZAP XR
S0344	Macrophage-oxLDL; re-excision	macrophage-oxidized LDL treated	blood	Cell Line		Uni-ZAP XR
S0346	Human Amygdala;re-excision	Amygdala				Uni-ZAP XR
S0348	Cheek Carcinoma	Cheek Carcinoma			disease	pSport1
S0350	Pharynx Carcinoma	Pharynx carcinoma	Hypopharynx		disease	pSport1
S0352	Larynx Carcinoma	Larynx carcinoma			disease	pSport1
S0354	Colon Normal II	Colon Normal	Colon			pSport1
S0356	Colon Carcinoma	Colon Carcinoma	Colon		disease	pSport1
S0358	Colon Normal III	Colon Normal	Colon			pSport1
S0360	Colon Tumor II	Colon Tumor	Colon		disease	pSport1
S0362	Human Gastrocnemius	Gastrocnemius muscle				pSport1
S0364	Human Quadriceps	Quadriceps muscle				pSport1
S0366	Human Soleus	Soleus Muscle				pSport1
S0368	Human Pancreatic Langerhans	Islets of Langerhans				pSport1

S0370	Larynx carcinoma II	Larynx carcinoma			disease	pSport1
S0372	Larynx carcinoma III	Larynx carcinoma			disease	pSport1
S0374	Normal colon	Normal colon				pSport1
S0376	Colon Tumor	Colon Tumor			disease	pSport1
S0378	Pancreas normal PCA4 No	Pancreas Normal PCA4 No				pSport1
S0380	Pancreas Tumor PCA4 Tu	Pancreas Tumor PCA4 Tu			disease	pSport1
S0382	Larynx carcinoma IV	Larynx carcinoma			disease	pSport1
S0384	Tongue carcinoma	Tongue carcinoma			disease	pSport1
S0386	Human Whole Brain, re-excision	Whole brain	Brain			ZAP Express
S0388	Human Hypothalamus, schizophrenia, re-excision	Human Hypothalamus, Schizophrenia			disease	Uni-ZAP XR
S0390	Smooth muscle, control; re-excision	Smooth muscle	Pulmonary artery	Cell Line		Uni-ZAP XR
S0392	Salivary Gland	Salivary gland; normal				pSport1
S0394	Stomach; normal	Stomach; normal				pSport1
S0396	Uterus; normal	Uterus; normal				pSport1
S0398	Testis; normal	Testis; normal				pSport1
S0400	Brain; normal	Brain; normal				pSport1
S0402	Adrenal Gland, normal	Adrenal gland; normal				pSport1
S0404	Rectum normal	Rectum, normal				pSport1
S0406	Rectum tumour	Rectum tumour				pSport1
S0408	Colon, normal	Colon, normal				pSport1
S0410	Colon, tumour	Colon, tumour				pSport1
S0412	Temporal cortex-Alzheimer; subtracted	Temporal cortex, alzheimer			disease	Other
S0414	Hippocampus, Alzheimer Subtracted	Hippocampus, Alzheimer Subtracted				Other
S0418	CHME Cell Line; treated 5 hrs	CHME Cell Line; treated				pCMVSPORT 3.0
S0420	CHME Cell Line, untreated	CHME Cell line, untreated				pSport1
S0422	Mo7e Cell Line GM-CSF treated (1ng/ml)	Mo7e Cell Line GM-CSF treated (1ng/ml)				pCMVSPORT 3.0
S0424	TF-1 Cell Line GM-CSF Treated	TF-1 Cell Line GM-CSF Treated				pSport1
S0426	Monocyte activated; re-excision	Monocyte-activated	blood	Cell Line		Uni-ZAP XR
S0428	Neutrophils control; re-excision	human neutrophils	blood	Cell Line		Uni-ZAP XR
S0430	Aryepiglottis Normal	Aryepiglottis Normal				pSport1
S0432	Sinus piniformis Tumour	Sinus piniformis Tumour				pSport1
S0434	Stomach Normal	Stomach Normal			disease	pSport1
S0436	Stomach Tumour	Stomach Tumour			disease	pSport1
S0438	Liver Normal Met5No	Liver Normal Met5No				pSport1
S0440	Liver Tumour Met 5 Tu	Liver Tumour				pSport1
S0442	Colon Normal	Colon Normal				pSport1
S0444	Colon Tumor	Colon Tumour			disease	pSport1

S0446	Tongue Tumour	Tongue Tumour				pSport1
S0448	Larynx Normal	Larynx Normal				pSport1
S0450	Larynx Tumour	Larynx Tumour				pSport1
S0452	Thymus	Thymus				pSport1
S0454	Placenta	Placenta	Placenta			pSport1
S0456	Tongue Normal	Tongue Normal				pSport1
S0458	Thyroid Normal (SDCA2 No)	Thyroid normal				pSport1
S0460	Thyroid Tumour	Thyroid Tumour				pSport1
S0462	Thyroid Thyroiditis	Thyroid Thyroiditis				pSport1
S0464	Larynx Normal	Larynx Normal				pSport1
S0466	Larynx Tumor	Larynx Tumor			disease	pSport1
S0468	Ea.hy.926 cell line	Ea.hy.926 cell line				pSport1
S0470	Adenocarcinoma	PYFD			disease	pSport1
S0472	Lung Mesothelium	PYBT				pSport1
S0474	Human blood platelets	Platelets	Blood platelets			Other
S0665	Human Amygdala; re- excision	Amygdala				Uni-ZAP XR
S3012	Smooth Muscle Serum Treated, Norm	Smooth muscle	Pulmana ry artery	Cell Line		pBluescript
S3014	Smooth muscle, serum induced,re-exc	Smooth muscle	Pulmana ry artery	Cell Line		pBluescript
S3018	TH1 cells	TH1 cells				Uni-ZAP XR
S3020	TH2 cells	TH2 cells				Uni-ZAP XR
S6014	H. hypothalamus, frac A	Hypothalamus	Brain			ZAP Express
S6016	H. Frontal Cortex, Epileptic	H. Brain, Frontal Cortex, Epileptic	Brain		disease	Uni-ZAP XR
S6022	H. Adipose Tissue	Human Adipose Tissue				Uni-ZAP XR
S6024	Alzheimers, spongy change	Alzheimer's/Spongy change	Brain		disease	Uni-ZAP XR
S6026	Frontal Lobe, Dementia	Frontal Lobe dementia/Alzheimer' 's	Brain			Uni-ZAP XR
S6028	Human Manic Depression Tissue	Human Manic depression tissue	Brain		disease	Uni-ZAP XR
T0001	Human Brown Fat	Brown Fat				pBluescript SK-
T0002	Activated T-cells	Activated T-Cell, PBL fraction	Blood	Cell Line		pBluescript SK-
T0003	Human Fetal Lung	Human Fetal Lung				pBluescript SK-
T0004	Human White Fat	Human White Fat				pBluescript SK-
T0006	Human Pineal Gland	Human Pinneal Gland				pBluescript SK-
T0007	Colon Epithelium	Colon Epithelium				pBluescriptISK -
T0008	Colorectal Tumor	Colorectal Tumor			disease	pBluescript SK-
T0010	Human Infant Brain	Human Infant Brain				Other
T0023	Human Pancreatic Carcinoma	Human Pancreatic Carcinoma			disease	pBluescript SK-
T0027	Human Prostate Epithelium	Human Prostate Epithelium				pBluescript SK-
T0039	HSA 172 Celis	Human HSA172 cell line				pBluescript SK-

T0040	HSC172 cells	SA172 Cells				pBluescript SK-
T0041	Jurkat T-cell G1 phase	Jurkat T-cell				pBluescript SK-
T0042	Jurkat T-Cell, S phase	Jurkat T-Cell Line				pBluescript SK-
T0048	Human Aortic Endothelium	Human Aortic Endothilium				pBluescript SK-
T0049	Aorta endothelial cells + TNF-a	Aorta endothelial cells				pBluescript SK-
T0060	Human White Adipose	Human White Fat				pBluescript SK-
T0067	Human Thyroid	Human Thyroid				pBluescript SK-
T0068	Normal Ovary, Premenopausal	Normal Ovary, Premenopausal				pBluescript SK-
T0069	Human Uterus, normal	Human Uterus, normal				pBluescript SK-
T0071	Human Bone Marrow	Human Bone Marrow				pBluescript SK-
T0078	Human Liver, normal adult	Human Liver, normal Adult				pBluescript SK-
T0079	Human Kidney, normal Adult	Human Kidney, normal Adult				pBluescript SK-
T0082	Human Adult Retina	Human Adult Retina				pBluescript SK-
T0086	Human Pancreatic Carcinoma -- Screened	Human Pancreatic Carcinoma			disease	pBluescript SK-
T0087	Alzheimer"s, exon trap,712P				disease	pAMP
T0090	Liver, normal					pBluescript SK-
T0103	Human colon carcinoma (HCC) cell line					pBluescript SK-
T0104	HCC cell line metastasis to liver					pBluescript SK-
T0109	Human (HCC) cell line liver (mouse) metastasis, remake					pBluescript SK-
T0110	Human colon carcinoma (HCC) cell line, remake					pBluescript SK-
T0112	Human (Caco-2) cell line, adenocarcinoma, colon					pBluescript SK-
T0114	Human (Caco-2) cell line, adenocarcinoma, colon, remake					pBluescript SK-
T0115	Human Colon Carcinoma (HCC) cell line					pBluescript SK-
L0002	Atrium cDNA library Human heart					
L0005	Clontech human aorta polyA+ mRNA (#6572)					
L0010	GeneTrack, 4p16.3 JM Rommens					
L0021	Human adult					

	(K.Okubo)					
L0022	Human adult lung 3" directed MboI cDNA					
L0032	Human chromosome 12p cDNAs					
L0034	Human chromosome 14					
L0040	Human colon mucosa					
L0041	Human epidermal keratinocyte					
L0043	Human HaCaT keratinocyte cDNA					
L0044	Human K562 erythroleukemic cells					
L0052	Human normalized K562-cDNA					
L0053	Human pancreatic tumor					
L0055	Human promyelocyte					
L0060	Human thymus NSTH II					
L0065	Liver HepG2 cell line.					
L0070	Selected chromosome 21 cDNA library					
L0096	Subtracted human retina					
L0097	Subtracted human retinal pigment epithelium (RPE)					
L0103	DKFZphamyl	amygdala				
L0105	Human aorta polyA+ (TFujiwara)	aorta				
L0109	Human brain cDNA	brain				
L0118	Human fetal brain S. Meier-Ewert	brain				
L0140	Human pancreatic cancer (CWallrapp)	pancreatic cancer				
L0142	Human placenta cDNA (TFujiwara)	placenta				
L0143	Human placenta polyA+ (TFujiwara)	placenta				
L0149	DKFZphsnul	subthalamic nucleus				
L0152	DKFZphthml	thymus				
L0157	Human fetal brain (TFujiwara)		brain			
L0158	Human fetal brain QBoqin		brain			
L0163	Human heart cDNA (YNakamura)		heart			
L0171	Human lung adenocarcinoma A549	lung adenocarcinoma		A549		
L0181	HeLa cDNA (T.Noma)			HeLa		
L0185	Human immortalized fibroblasts (H.L.Ozer)			HS74 and its SV40-transformed sublines		
L0194	Human pancreatic cancer cell line Patu	pancreatic cancer		Patu 8988t		



	8988t					
L0309	Human E8CASS	breast adenocarcinoma		E8CASS; variant of MCF7		
L0351	Infant brain, Bento Soares					BA, M13- derived
L0352	Normalized infant brain, Bento Soares					BA, M13- derived
L0353	21q Placenta, F. Tassone and K. Gardiner					Bluescript
L0354	JG, Human foetal Kidney tissue					Bluescript
L0355	P, Human foetal Brain Whole tissue					Bluescript
L0356	S, Human foetal Adrenals tissue					Bluescript
L0360	Y, Human Placenta tissue					Bluescript KS II+
L0361	Stratagene ovary (#937217)		ovary			Bluescript SK
L0362	Stratagene ovarian cancer (#937219)					Bluescript SK-
L0363	NCI CGAP GC2	germ cell tumor				Bluescript SK-
L0364	NCI CGAP GC5	germ cell tumor				Bluescript SK-
L0365	NCI CGAP Phe1	pheochromocytoma				Bluescript SK-
L0366	Stratagene schizo brain S11	schizophrenic brain S-11 frontal lobe				Bluescript SK-
L0367	NCI CGAP Sch1	Schwannoma tumor				Bluescript SK-
L0368	NCI CGAP SS1	synovial sarcoma				Bluescript SK-
L0369	NCI CGAP_AA1	adrenal adenoma	adrenal gland			Bluescript SK-
L0370	Johnston frontal cortex	pooled frontal lobe	brain			Bluescript SK-
L0371	NCI CGAP Br3	breast tumor	breast			Bluescript SK-
L0372	NCI CGAP Co12	colon tumor	colon			Bluescript SK-
L0373	NCI CGAP Co11	tumor	colon			Bluescript SK-
L0374	NCI CGAP Co2	tumor	colon			Bluescript SK-
L0375	NCI CGAP Kid6	kidney tumor	kidney			Bluescript SK-
L0376	NCI CGAP Lar1	larynx	larynx			Bluescript SK-
L0378	NCI CGAP Lu1	lung tumor	lung			Bluescript SK-
L0379	NCI CGAP_Lym3	lymphoma	lymph node			Bluescript SK-
L0381	NCI CGAP_HN4	squamous cell carcinoma	pharynx			Bluescript SK-
L0382	NCI CGAP Pr25	epithelium (cell line)	prostate			Bluescript SK-
L0383	NCI CGAP_Pr24	invasive tumor (cell line)	prostate			Bluescript SK-
L0384	NCI CGAP Pr23	prostate tumor	prostate			Bluescript SK-
L0385	NCI CGAP Gas1	gastric tumor	stomach			Bluescript SK-
L0386	NCI CGAP_HN3	squamous cell carcinoma from base of tongue	tongue			Bluescript SK-
L0387	NCI CGAP_GCB0	germinal center B- cells	tonsil			Bluescript SK-
L0388	NCI CGAP_HN6	normal gingiva (cell line from immortalized kerati				Bluescript SK-
L0389	NCI CGAP_HN5	normal gingiva (cell line from primary				Bluescript SK-

		keratinocyt				
L0393	B, Human Liver tissue					gt11
L0394	H, Human adult Brain Cortex tissue					gt11
L0411	1-NIB					Lafmid BA
L0414	b4HB3MA					Lafmid BA
L0415	b4HB3MA Cot8-HAP-Ft					Lafmid BA
L0417	b4HB3MA-Cot0.38-HAP-Ft-6					Lafmid BA
L0418	b4HB3MA-Cot109+10-Bio					Lafmid BA
L0420	b4HB3MA-Cot109+103-Bio					Lafmid BA
L0422	b4HB3MA-Cot12-HAP-B					Lafmid BA
L0423	b4HB3MA-Cot12-HAP-Ft					Lafmid BA
L0426	b4HB3MA-Cot51.5-HAP-Ft					Lafmid BA
L0427	b4HB3MA-FT20%-Biotin					Lafmid BA
L0430	Cot250Ft-b4HB3MA					Lafmid BA
L0434	Infant brain library of Dr. M. Soares					lafmid BA
L0435	Infant brain, LLNL array of Dr. M. Soares 1NIB					lafmid BA
L0437	N-b4HB3MA-Cot109					Lafmid BA
L0438	normalized infant brain cDNA	total brain	brain			lafmid BA
L0439	Soares infant brain 1NIB		whole brain			Lafmid BA
L0440	1HB3MK					Lafmid BK
L0442	4HB3MK					Lafmid BK
L0443	b4HB3MK					Lafmid BK
L0444	HB3MK					Lafmid BK
L0448	3HFLSK20					Lafmid K
L0451	N3HFLSK20					Lafmid K
L0455	Human retina cDNA randomly primed sublibrary	retina	eye			lambda gt10
L0456	Human retina cDNA Tsp509I-cleaved sublibrary	retina	eye			lambda gt10
L0459	Adult heart, Clontech					Lambda gt11
L0460	Adult heart, Lambda gt11					Lambda gt11
L0462	WATM1					lambda gt11
L0465	TEST1, Human adult Testis tissue					lambda nml149
L0468	HE6W					lambda zap
L0469	T, Human adult Rhabdomyosarcoma cell-line					Lambda Zap
L0470	BL29 Burkitt's lymphoma, Pascalis Sideras					lambda ZAP 2
L0471	Human fetal heart,					Lambda ZAP

	Lambda ZAP Express					Express
L0475	KG1-a Lambda Zap Express cDNA library			KG1-a		Lambda Zap Express (Stratagene)
L0476	Fetal brain, Stratagene					Lambda ZAP II
L0477	HPLA CCLee	placenta				Lambda ZAP II
L0480	Stratagene cat#937212 (1992)					Lambda ZAP, pBluescript SK(-)
L0481	CD34+DIRECTIONAL					Lambda ZAPII
L0483	Human pancreatic islet					Lambda ZAPII
L0485	STRATAGENE Human skeletal muscle cDNA library, cat. #936215.	skeletal muscle	leg muscle			Lambda ZAPII
L0493	NCI CGAP_Ov26	papillary serous carcinoma	ovary			pAMP1
L0497	NCI CGAP_HSC4	CD34+, CD38- from normal bone marrow donor	bone marrow			pAMP1
L0498	NCI CGAP_HSC3	CD34+, T negative, patient with chronic myelogenous	bone marrow			pAMP1
L0499	NCI CGAP_HSC2	stem cell 34+/38+	bone marrow			pAMP1
L0500	NCI CGAP_Brn20	oligodendroglioma	brain			pAMP1
L0501	NCI CGAP_Brn21	oligodendroglioma	brain			pAMP1
L0502	NCI CGAP_Br15	adenocarcinoma	breast			pAMP1
L0503	NCI CGAP_Br17	adenocarcinoma	breast			pAMP1
L0504	NCI CGAP_Br13	breast carcinoma in situ	breast			pAMP1
L0505	NCI CGAP_Br12	invasive carcinoma	breast			pAMP1
L0506	NCI CGAP_Br16	lobular carcinoma in situ	breast			pAMP1
L0507	NCI CGAP_Br14	normal epithelium	breast			pAMP1
L0508	NCI CGAP_Lu25	bronchioalveolar carcinoma	lung			pAMP1
L0509	NCI CGAP_Lu26	invasive adenocarcinoma	lung			pAMP1
L0510	NCI CGAP_Ov33	borderline ovarian carcinoma	ovary			pAMP1
L0511	NCI CGAP_Ov34	borderline ovarian carcinoma	ovary			pAMP1
L0512	NCI CGAP_Ov36	borderline ovarian carcinoma	ovary			pAMP1
L0513	NCI CGAP_Ov37	early stage papillary serous carcinoma	ovary			pAMP1
L0514	NCI CGAP_Ov31	papillary serous carcinoma	ovary			pAMP1
L0515	NCI CGAP_Ov32	papillary serous carcinoma	ovary			pAMP1
L0517	NCI CGAP_Pr1					pAMP10
L0518	NCI CGAP_Pr2					pAMP10
L0519	NCI CGAP_Pr3					pAMP10
L0520	NCI CGAP_Alvi	alveolar rhabdomyosarcoma				pAMP10

L0521	NCI CGAP Ew1	Ewing's sarcoma				pAMP10
L0522	NCI CGAP Kid1	kidney				pAMP10
L0523	NCI CGAP Lip2	liposarcoma				pAMP10
L0524	NCI CGAP Li1	liver				pAMP10
L0525	NCI CGAP Li2	liver				pAMP10
L0526	NCI CGAP_Pr12	metastatic prostate bone lesion				pAMP10
L0527	NCI CGAP Ov2	ovary				pAMP10
L0528	NCI CGAP Pr5	prostate				pAMP10
L0529	NCI CGAP Pr6	prostate				pAMP10
L0530	NCI CGAP Pr8	prostate				pAMP10
L0532	NCI CGAP Thy1	thyroid				pAMP10
L0533	NCI CGAP_HSC1	stem cells	bone marrow			pAMP10
L0534	Chromosome 7 Fetal Brain cDNA Library	brain	brain			pAMP10
L0535	NCI CGAP_Br5	infiltrating ductal carcinoma	breast			pAMP10
L0536	NCI CGAP Br4	normal ductal tissue	breast			pAMP10
L0537	NCI CGAP_Ov6	normal cortical stroma	ovary			pAMP10
L0538	NCI CGAP_Ov5	normal surface epithelium	ovary			pAMP10
L0539	Chromosome 7 Placental cDNA Library		placenta			pAMP10
L0540	NCI CGAP_Pr10	invasive prostate tumor	prostate			pAMP10
L0541	NCI CGAP_Pr7	low-grade prostatic neoplasia	prostate			pAMP10
L0542	NCI CGAP_Pr11	normal prostatic epithelial cells	prostate			pAMP10
L0543	NCI CGAP_Pr9	normal prostatic epithelial cells	prostate			pAMP10
L0544	NCI CGAP_Pr4	prostatic intraepithelial neoplasia - high grade	prostate			pAMP10
L0545	NCI CGAP_Pr4.1	prostatic intraepithelial neoplasia - high grade	prostate			pAMP10
L0546	NCI CGAP_Pr18	stroma	prostate			pAMP10
L0547	NCI CGAP_Pr16	tumor	prostate			pAMP10
L0549	NCI CGAP_HN10	carcinoma in situ from retromolar trigone				pAMP10
L0550	NCI CGAP_HN9	normal squamous epithelium from retromolar trigone				pAMP10
L0551	NCI CGAP_HN7	normal squamous epithelium, floor of mouth				pAMP10
L0552	NCI CGAP_HN8	well-differentiated invasive carcinoma, floor of m				pAMP10
L0553	NCI CGAP_Co22	colonic adenocarcinoma	colon			pAMP10
L0554	NCI CGAP Li8		liver			pAMP10

L0555	NCI CGAP Lu34	large cell carcinoma	lung			pAMP10
L0556	NCI CGAP Lu34.1	large cell carcinoma	lung			pAMP10
L0558	NCI CGAP_Ov40	endometrioid ovarian metastasis	ovary			pAMP10
L0559	NCI CGAP_Ov39	papillary serous ovarian metastasis	ovary			pAMP10
L0560	NCI CGAP_HN12	moderate to poorly differentiated invasive carcino	tongue			pAMP10
L0561	NCI CGAP_HN11	normal squamous epithelium	tongue			pAMP10
L0562	Chromosome 7 HeLa cDNA Library			HeLa cell line; ATCC		pAMP10
L0563	Human Bone Marrow Stromal Fibroblast	bone marrow				pBluescript
L0564	Jia bone marrow stroma	bone marrow stroma				pBluescript
L0565	Normal Human Trabecular Bone Cells	Bone	Hip			pBluescript
L0579	Human fetal brain QBogin2	cerebrum and cerebellum				pBluescript SK
L0581	Stratagene liver (#937224)		liver			pBluescript SK
L0584	Stratagene cDNA library Human heart, cat#936208					pBluescript SK(+)
L0586	HTCDL1					pBluescript SK(-)
L0587	Stratagene colon HT29 (#937221)					pBluescript SK-
L0588	Stratagene endothelial cell 937223					pBluescript SK-
L0589	Stratagene fetal retina 937202					pBluescript SK-
L0590	Stratagene fibroblast (#937212)					pBluescript SK-
L0591	Stratagene HeLa cell s3 937216					pBluescript SK-
L0592	Stratagene hNT neuron (#937233)					pBluescript SK-
L0593	Stratagene neuroepithelium (#937231)					pBluescript SK-
L0594	Stratagene neuroepithelium NT2RAMI 937234					pBluescript SK-
L0595	Stratagene NT2 neuronal precursor 937230	neuroepithelial cells	brain			pBluescript SK-
L0596	Stratagene colon (#937204)		colon			pBluescript SK-
L0597	Stratagene corneal stroma (#937222)		cornea			pBluescript SK-
L0598	Morton Fetal Cochlea	cochlea	ear			pBluescript SK-
L0599	Stratagene lung (#937210)		lung			pBluescript SK-
L0600	Weizmann Olfactory	olfactory epithelium	nose			pBluescript

	Epithelium					SK-
L0601	Stratagene pancreas (#937208)		pancreas			pBluescript SK-
L0602	Pancreatic Islet	pancreatic islet	pancreas			pBluescript SK-
L0603	Stratagene placenta (#937225)		placenta			pBluescript SK-
L0604	Stratagene muscle 937209	muscle	skeletal muscle			pBluescript SK-
L0605	Stratagene fetal spleen (#937205)	fetal spleen	spleen			pBluescript SK-
L0606	NCI_CGAP_Lym5	follicular lymphoma	lymph node			pBluescript SK-
L0607	NCI_CGAP_Lym6	mantle cell lymphoma	lymph node			pBluescript SK-
L0608	Stratagene lung carcinoma 937218	lung carcinoma	lung	NCI-H69		pBluescript SK-
L0609	Schiller astrocytoma	astrocytoma	brain			pBluescript SK- (Stratagene)
L0611	Schiller meningioma	meningioma	brain			pBluescript SK- (Stratagene)
L0612	Schiller oligodendroglioma	oligodendroglioma	brain			pBluescript SK- (Stratagene)
L0615	22 week old human fetal liver cDNA library					pBluescriptII SK(-)
L0616	Chromosome 21 exon					pBluescriptIIK S+
L0622	HM1					pcDNAII (Invitrogen)
L0623	HM3	pectoral muscle (after mastectomy)				pcDNAII (Invitrogen)
L0625	NCI_CGAP_AR1	bulk alveolar tumor				pCMV-SPORT2
L0626	NCI_CGAP_GC1	bulk germ cell seminoma				pCMV-SPORT2
L0627	NCI_CGAP_Co1	bulk tumor	colon			pCMV-SPORT2
L0628	NCI_CGAP_Ov1	ovary bulk tumor	ovary			pCMV-SPORT2
L0629	NCI_CGAP_Mel3	metastatic melanoma to bowel	bowel (skin primary)			pCMV-SPORT4
L0630	NCI_CGAP_CNS1	substantia nigra	brain			pCMV-SPORT4
L0631	NCI_CGAP_Br7		breast			pCMV-SPORT4
L0632	NCI_CGAP_Li5	hepatic adenoma	liver			pCMV-SPORT4
L0633	NCI_CGAP_Lu6	small cell carcinoma	lung			pCMV-SPORT4
L0634	NCI_CGAP_Ov8	serous adenocarcinoma	ovary			pCMV-SPORT4
L0635	NCI_CGAP_PNS1	dorsal root ganglion	peripheral nervous system			pCMV-SPORT4

L0636	NCI_CGAP_Pit1	four pooled pituitary adenomas	brain			pCMV-SPORT6
L0637	NCI_CGAP_Brn53	three pooled meningiomas	brain			pCMV-SPORT6
L0638	NCI_CGAP_Brn35	tumor, 5 pooled (see description)	brain			pCMV-SPORT6
L0639	NCI_CGAP_Brn52	tumor, 5 pooled (see description)	brain			pCMV-SPORT6
L0640	NCI_CGAP_Br18	four pooled high-grade tumors, including two prima	breast			pCMV-SPORT6
L0641	NCI_CGAP_Co17	juvenile granulosa tumor	colon			pCMV-SPORT6
L0642	NCI_CGAP_Co18	moderately differentiated adenocarcinoma	colon			pCMV-SPORT6
L0643	NCI_CGAP_Co19	moderately differentiated adenocarcinoma	colon			pCMV-SPORT6
L0644	NCI_CGAP_Co20	moderately differentiated adenocarcinoma	colon			pCMV-SPORT6
L0645	NCI_CGAP_Co21	moderately differentiated adenocarcinoma	colon			pCMV-SPORT6
L0646	NCI_CGAP_Co14	moderately-differentiated adenocarcinoma	colon			pCMV-SPORT6
L0647	NCI_CGAP_Sar4	five pooled sarcomas, including myxoid liposarcoma	connective tissue			pCMV-SPORT6
L0648	NCI_CGAP_Eso2	squamous cell carcinoma	esophagus			pCMV-SPORT6
L0649	NCI_CGAP_GU1	2 pooled high-grade transitional cell tumors	genitourinary tract			pCMV-SPORT6
L0650	NCI_CGAP_Kid13	2 pooled Wilms' tumors, one primary and one metast	kidney			pCMV-SPORT6
L0651	NCI_CGAP_Kid8	renal cell tumor	kidney			pCMV-SPORT6
L0652	NCI_CGAP_Lu27	four pooled poorly-differentiated adenocarcinomas	lung			pCMV-SPORT6
L0653	NCI_CGAP_Lu28	two pooled squamous cell carcinomas	lung			pCMV-SPORT6
L0654	NCI_CGAP_Lu31		lung, cell line			pCMV-SPORT6
L0655	NCI_CGAP_Lym12	lymphoma, follicular mixed small and large cell	lymph node			pCMV-SPORT6
L0656	NCI_CGAP_Ov38	normal epithelium	ovary			pCMV-SPORT6
L0657	NCI_CGAP_Ov23	tumor, 5 pooled (see description)	ovary			pCMV-SPORT6
L0658	NCI_CGAP_Ov35	tumor, 5 pooled (see description)	ovary			pCMV-SPORT6
L0659	NCI_CGAP_Pan1	adenocarcinoma	pancreas			pCMV-SPORT6

L0661	NCI_CGAP_Mel15	malignant melanoma, metastatic to lymph node	skin			pCMV-SPORT6
L0662	NCI_CGAP_Gas4	poorly differentiated adenocarcinoma with signet r	stomach			pCMV-SPORT6
L0663	NCI_CGAP_Ut2	moderately-differentiated endometrial adenocarcino	uterus			pCMV-SPORT6
L0664	NCI_CGAP_Ut3	poorly-differentiated endometrial adenocarcinoma,	uterus			pCMV-SPORT6
L0665	NCI_CGAP_Ut4	serous papillary carcinoma, high grade, 2 pooled t	uterus			pCMV-SPORT6
L0666	NCI_CGAP_Ut1	well-differentiated endometrial adenocarcinoma, 7	uterus			pCMV-SPORT6
L0667	NCI_CGAP_CML1	myeloid cells, 18 pooled CML cases, BCR/ABL rearra	whole blood			pCMV-SPORT6
L0669	Human MCF7 cDNA subtracted with MDA-MB-231 cDNA	breast adenocarcinoma	breast	MCF7		pCR II [Invitrogen]
L0681	Stanley Frontal SN individual	frontal lobe (see description)	brain			pCR2.1 (Invitrogen)
L0682	Stanley Frontal NB pool 2	frontal lobe (see description)	brain			pCR2.1-TOPO (Invitrogen)
L0683	Stanley Frontal NS pool 2	frontal lobe (see description)	brain			pCR2.1-TOPO (Invitrogen)
L0684	Stanley Frontal SB pool 1	frontal lobe (see description)	brain			pCR2.1-TOPO (Invitrogen)
L0686	Stanley Frontal SN pool 2	frontal lobe (see description)	brain			pCR2.1-TOPO (Invitrogen)
L0687	Stanley Hippocampus NB pool 1	hippocampus (see description)	brain			pCR2.1-TOPO (Invitrogen)
L0689	Stanley Hippocampus SN pool 1	hippocampus (see description)	brain			pCR2.1-TOPO (Invitrogen)
L0695	Human Glioblastoma Cell		Brain	BT-325		PCR II, Invitrogen
L0697	Testis 1					PGEM 5zf(+)
L0698	Testis 2					PGEM 5zf(+)
L0717	Gessler Wilms tumor					pSPORT1
L0718	Testis 5					pSPORT1
L0731	Soares_pregnant_uterus NbHPU		uterus			pT7T3-Pac
L0738	Human colorectal cancer					pT7T3D
L0739	Soares placenta Nb2HP-B					pT7T3D (Pharmacia) with a modified polylinker
L0740	Soares melanocyte 2NbHM	melanocyte				pT7T3D (Pharmacia) with a modified polylinker



L0741	Soares adult brain N2b4HB55Y		brain			pT7T3D (Pharmacia) with a modified polylinker
L0742	Soares adult brain N2b5HB55Y		brain			pT7T3D (Pharmacia) with a modified polylinker
L0743	Soares breast 2NbHBst		breast			pT7T3D (Pharmacia) with a modified polylinker
L0744	Soares breast 3NbHBst		breast			pT7T3D (Pharmacia) with a modified polylinker
L0745	Soares retina N2b4HR	retina	eye			pT7T3D (Pharmacia) with a modified polylinker
L0746	Soares retina N2b5HR	retina	eye			pT7T3D (Pharmacia) with a modified polylinker
L0747	Soares fetal heart_Nb HH19W		heart			pT7T3D (Pharmacia) with a modified polylinker
L0748	Soares fetal liver spleen 1NFLS		Liver and Spleen			pT7T3D (Pharmacia) with a modified polylinker
L0749	Soares_fetal_liver_sple en_1NFLS_S1		Liver and Spleen			pT7T3D (Pharmacia) with a modified polylinker
L0750	Soares_fetal_lung_Nb HL19W		lung			pT7T3D (Pharmacia) with a modified polylinker
L0751	Soares ovary tumor NbHOT	ovarian tumor	ovary			pT7T3D (Pharmacia) with a modified polylinker
L0752	Soares_parathyroid_tu mor_NbHPA	parathyroid tumor	parathyr oid gland			pT7T3D (Pharmacia) with a modified polylinker
L0753	Soares pineal gland		pineal			pT7T3D

	N3HPG		gland			(Pharmacia) with a modified polylinker
L0754	Soares placenta Nb2HP		placenta			pT7T3D (Pharmacia) with a modified polylinker
L0755	Soares_placenta_8to9w eeks_2NbHP8to9W		placenta			pT7T3D (Pharmacia) with a modified polylinker
L0756	Soares_multiple_sclero sis_2NbHMSP	multiple sclerosis lesions				pT7T3D (Pharmacia) with a modified polylinker V TYPE
L0757	Soares_senescent_fibro blasts_NbHSF	senescent fibroblast				pT7T3D (Pharmacia) with a modified polylinker V TYPE
L0758	Soares_testis_NHT					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0759	Soares_total_fetus_Nb 2HF8_9w					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0760	Barstead aorta HPLRB3	aorta				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0761	NCI_CGAP_CLL1	B-cell, chronic lymphocytic leukemia				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0762	NCI_CGAP_Br1.1	breast				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0763	NCI_CGAP_Br2	breast				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0764	NCI_CGAP_Co3	colon				pT7T3D-Pac (Pharmacia) with a modified polylinker

L0765	NCI_CGAP_Co4	colon				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0766	NCI_CGAP_GCB1	germinal center B cell				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0767	NCI_CGAP_GC3	pooled germ cell tumors				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0768	NCI_CGAP_GC4	pooled germ cell tumors				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0769	NCI_CGAP_Brn25	anaplastic oligodendroglioma	brain			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0770	NCI_CGAP_Brn23	glioblastoma (pooled)	brain			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0771	NCI_CGAP_Co8	adenocarcinoma	colon			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0772	NCI_CGAP_Co10	colon tumor RER+	colon			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0773	NCI_CGAP_Co9	colon tumor RER+	colon			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0774	NCI_CGAP_Kid3		kidney			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0775	NCI_CGAP_Kid5	2 pooled tumors (clear cell type)	kidney			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0776	NCI_CGAP_Lu5	carcinoid	lung			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0777	Soares NhHMPu S1	Pooled human	mixed			pT7T3D-Pac

		melanocyte, fetal heart, and pregnant	(see below)			(Pharmacia) with a modified polylinker
L0778	Barstead pancreas HPLRB1		pancreas			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0779	Soares_NFL_T_GBC_S1		pooled			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0780	Soares_NSF_F8_9W_OT_PA_P_S1		pooled			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0781	Barstead prostate BPH HPLRB4		prostate			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0782	NCI_CGAP_Pr21	normal prostate	prostate			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0783	NCI_CGAP_Pr22	normal prostate	prostate			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0784	NCI_CGAP_Lei2	leiomyosarcoma	soft tissue			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0785	Barstead spleen HPLRB2		spleen			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0786	Soares_NbHFB		whole brain			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0787	NCI_CGAP_Sub1					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0788	NCI_CGAP_Sub2					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0789	NCI_CGAP_Sub3					pT7T3D-Pac (Pharmacia)

						with a modified polylinker
L0790	NCI_CGAP_Sub4					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0791	NCI_CGAP_Sub5					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0792	NCI_CGAP_Sub6					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0793	NCI_CGAP_Sub7					pT7T3D-Pac (Pharmacia) with a modified polylinker
L0794	NCI_CGAP_GC6	pooled germ cell tumors				pT7T3D-Pac (Pharmacia) with a modified polylinker
L0796	NCI_CGAP_Brn50	medulloblastoma	brain			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0800	NCI_CGAP_Co16	colon tumor, RER+	colon			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0803	NCI_CGAP_Kid11		kidney			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0804	NCI_CGAP_Kid12	2 pooled tumors (clear cell type)	kidney			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0805	NCI_CGAP_Lu24	carcinoid	lung			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0806	NCI_CGAP_Lu19	squamous cell carcinoma, poorly differentiated (4	lung			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0807	NCI_CGAP_Ov18	fibrotheoma	ovary			pT7T3D-Pac (Pharmacia) with a

						modified polylinker
L0808	Barstead prostate BPH HPLRB4 1		prostate			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0809	NCI_CGAP_Pr28		prostate			pT7T3D-Pac (Pharmacia) with a modified polylinker
L0811	BATM2					PTZ18
L2249	Human aortic endothelium	aortic endothelium				
L2250	Human cerebral cortex	cerebral cortex				
L2251	Human fetal lung	Fetal lung				
L2269	NCI CGAP Thy11	follicular carcinoma	thyroid			pAMP10
L3872	NCI_CGAP_Skn1		skin, normal, 4 pooled samples			pCMV-SPORT6
L3904	NCI_CGAP_Brn64	glioblastoma with EGFR amplification	brain			pCMV-SPORT6
L3905	NCI_CGAP_Brn67	anaplastic oligodendroglioma with 1p/19q loss	brain			pCMV-SPORT6
L4497	NCI_CGAP_Br22	invasive ductal carcinoma, 3 pooled samples	breast			pCMV-SPORT6
L4500	NCI_CGAP_HN16	moderate to poorly differentiated invasive carcinoma	mouth			pAMP10
L4501	NCI_CGAP_Sub8					pT7T3D-Pac (Pharmacia) with a modified polylinker
L4559	NCI_CGAP_Thy3	follicular carcinoma	thyroid			pCMV-SPORT6
L4669	NCI_CGAP_Ov41	serous papillary tumor	ovary			pCMV-SPORT6
L4747	NCI_CGAP_Brn41	oligodendroglioma	brain			pT7T3D-Pac (Pharmacia) with a modified polylinker
L4775	NCI CGAP Thy12	papillary carcinoma	thyroid			pAMP10
L5286	NCI_CGAP_Thy10	medullary carcinoma	thyroid			pAMP10
L5564	NCI_CGAP_HN20		normal head/neck tissue			pAMP1
L5565	NCI_CGAP_Brn66	glioblastoma with probably TP53 mutation and with	brain			pCMV-SPORT6
L5566	NCI_CGAP_Brn70	anaplastic oligodendroglioma	brain			pCMV-SPORT6.ccdB
L5568	NCI_CGAP_HN21	nasopharyngeal carcinoma	head/neck			pAMP1

L5569	NCI_CGAP_HN17	normal epithelium	nasopharynx			pAMP10
L5574	NCI_CGAP_HN19	normal epithelium	nasopharynx			pAMP10
L5575	NCI_CGAP_Brn65	glioblastoma without EGFR amplification	brain			pCMV-SPORT6
L5622	NCI_CGAP_Skn3		skin			pCMV-SPORT6
L5623	NCI_CGAP_Skn4	squamous cell carcinoma	skin			pCMV-SPORT6

**TABLE 5**

OMIM Reference	Description
100650	Fetal alcohol syndrome
100650	Alcohol intolerance, acute
100678	ACAT2 deficiency
100690	Myasthenic syndrome, slow-channel congenital, 601462
100730	Myasthenia gravis, neonatal transient
102200	Somatotrophinoma
102578	Leukemia, acute promyelocytic, PML/RARA type
102770	Myoadenylate deaminase deficiency
102772	[AMP deaminase deficiency, erythrocytic]
103050	Autism, succinylpurinemic
103050	Adenylosuccinase deficiency
103581	Albright hereditary osteodystrophy-2
103950	Emphysema due to alpha-2-macroglobulin deficiency
104311	Alzheimer disease-3
104500	Amelogenesis imperfecta-2, hypoplastic local type
104770	Amyloidosis, secondary, susceptibility to
105580	Anal canal carcinoma
106100	Angioedema, hereditary
106150	Hypertension, essential, susceptibility to
106150	Preeclampsia, susceptibility to
106165	Hypertension, essential, 145500
106180	Myocardial infarction, susceptibility to
106210	Peters anomaly
106210	Cataract, congenital, with late-onset corneal dystrophy
106210	Foveal hypoplasia, isolated, 136520
106210	Aniridia
106300	Ankylosing spondylitis
107250	Anterior segment mesenchymal dysgenesis
107271	CD59 deficiency

107300	Antithrombin III deficiency
107470	Atypical mycobacterial infection, familial disseminated, 209950
107470	BCG infection, generalized familial
107470	Tuberculosis, susceptibility to
107670	Apolipoprotein A-II deficiency
107680	ApoA-I and apoC-III deficiency, combined
107680	Corneal clouding, autosomal recessive
107680	Amyloidosis, 3 or more types
107680	Hypertriglyceridemia, one form
107680	Hypoalphalipoproteinemia
107720	Hypertriglyceridemia
107730	Apolipoprotein B-100, ligand-defective
107730	Abetalipoproteinemia
107730	Hyperbetalipoproteinemia
107730	Hypobetalipoproteinemia
107741	Hyperlipoproteinemia, type III
107777	Diabetes insipidus, nephrogenic, autosomal recessive, 222000
107970	Arrhythmogenic right ventricular dysplasia-1
108725	Atherosclerosis, susceptibility to
108800	Atrial septal defect, secundum type
108985	Atrophia areata
109150	Machado-Joseph disease
109270	Renal tubular acidosis, distal, 179800
109270	Spherocytosis, hereditary
109270	[Acanthocytosis, one form]
109270	[Elliptocytosis, Malaysian-Melanesian type]
109270	Hemolytic anemia due to band 3 defect
109400	Basal cell nevus syndrome
109543	Leukemia, chronic lymphocytic, B-cell
109560	Leukemia/lymphoma, B-cell, 3
109565	Lymphoma, B-cell
109565	Lymphoma, diffuse large cell
109700	Hemodialysis-related amyloidosis
110100	Blepharophimosis, epicanthus inversus, and ptosis, type 1
110700	Vivax malaria, susceptibility to
112261	Fibrodysplasia ossificans progressiva
112262	Fibrodysplasia ossificans progressiva, 135100
112410	Hypertension with brachydactyly
113100	Brachydactyly, type C
113300	Brachydactyly type E
113705	Ovarian cancer
113705	Breast cancer-1
113721	Breast cancer
113900	Heart block, progressive familial, type I



114208	Malignant hyperthermia susceptibility 5, 601887
114208	Hypokalemic periodic paralysis, 170400
114290	Campomelic dysplasia with autosomal sex reversal
114550	Hepatocellular carcinoma
114835	Monocyte carboxyesterase deficiency
115500	Acatalasemia
115650	Cataract, anterior polar-1
115660	Cataract, cerulean, type 1
116600	Cataract, posterior polar
116806	Colorectal cancer
116860	Cavernous angiomatous malformations
117700	[Hypoceruloplasminemia, hereditary]
117700	Hemosiderosis, systemic, due to aceruloplasminemia
118210	Charcot-Marie-Tooth neuropathy-2A
118425	Myotonia congenita, dominant, 160800
118425	Myotonia congenita, recessive, 255700
118425	Myotonia levior, recessive
118470	[CETP deficiency]
118485	Polycystic ovary syndrome with hyperandrogenemia
118504	Epilepsy, benign neonatal, type 1, 121200
118504	Epilepsy, nocturnal frontal lobe, 600513
118800	Choreoathetosis, familial paroxysmal
119300	van der Woude syndrome
120070	Alport syndrome, autosomal recessive, 203780
120110	Metaphyseal chondrodysplasia, Schmid type
120120	Epidermolysis bullosa dystrophica, dominant, 131750
120120	Epidermolysis bullosa dystrophica, recessive, 226600
120120	Epidermolysis bullosa, pretibial, 131850
120131	Alport syndrome, autosomal recessive, 203780
120131	Hematuria, familial benign
120180	Ehlers-Danlos syndrome, type III
120180	Ehlers-Danlos syndrome, type IV, 130050
120180	Fibromuscular dysplasia of arteries, 135580
120180	Aneurysm, familial, 100070
120190	Ehlers-Danlos syndrome, type I, 130000
120220	Bethlem myopathy, 158810
120240	Bethlem myopathy, 158810
120250	Bethlem myopathy, 158810
120260	Epiphyseal dysplasia, multiple, type 2, 600204
120290	OSMED syndrome, 215150
120290	Stickler syndrome, type II, 184840
120435	Muir-Torre syndrome, 158320
120435	Colorectal cancer, hereditary, nonpolyposis, type I Ovarian cancer

120436	Muir-Torre family cancer syndrome, 158320
120436	Turcot syndrome with glioblastoma, 276300
120436	Colorectal cancer, hereditary nonpolyposis, type 2
120550	C1q deficiency, type A
120570	C1q deficiency, type B
120575	C1q deficiency, type C
120580	C1r/C1s deficiency, combined
120620	SLE susceptibility
120620	CR1 deficiency
120700	C3 deficiency
120810	C4 deficiency
120820	C4 deficiency
120920	Measles, susceptibility to
120950	C8 deficiency, type I
120960	C8 deficiency, type II
121014	Heterotaxia, viscerotaxial, autosomal recessive
121050	Contractural arachnodactyly, congenital
121800	Corneal dystrophy, crystalline, Schnyder
122720	Nicotine addiction, protection from
122720	Coumarin resistance, 122700
123270	[Creatine kinase, brain type, ectopic expression of]
123580	Cataract, congenital, autosomal dominant
123620	Cataract, cerulean, type 2, 601547
123660	Cataract, Coppock-like
123829	Melanoma
123940	White sponge nevus, 193900
124030	Parkinsonism, susceptibility to
124030	Debrisoquine sensitivity
124080	CMO II deficiency
124200	Darier disease (keratosis follicularis)
125264	Leukemia, acute nonlymphocytic
125270	Porphyria, acute hepatic
125270	Lead poisoning, susceptibility to
125490	Dentinogenesis imperfecta-1
125852	Insulin-dependent diabetes mellitus-2
126060	Anemia, megaloblastic, due to DHFR deficiency
126090	Hyperphenylalaninemia due to pterin-4a-carbinolamine dehydratase deficiency, 264070
126150	Diphtheria, susceptibility to
126340	Xeroderma pigmentosum, group D, 278730
126391	DNA ligase I deficiency
126451	Schizophrenia, susceptibility to
126452	Autonomic nervous system dysfunction
126452	[Novelty seeking personality]

126600	Doyne honeycomb retinal dystrophy
126600	Drusen, radial, autosomal dominant
126650	Chloride diarrhea, congenital, Finnish type, 214700
126650	Colon cancer
128100	Dystonia-1, torsion
129010	Neuropathy, congenital hypomyelinating, 1
129900	EEC syndrome-1
130410	Glutaricaciduria, type IIB
130500	Elliptocytosis-1
131100	Multiple endocrine neoplasia I
131100	Prolactinoma, hyperparathyroidism, carcinoid syndrome
131100	Carcinoid tumor of lung
131210	Atherosclerosis, susceptibility to
131242	Shah-Waardenburg syndrome, 277580
131400	Eosinophilia, familial
131440	Eosinophilic myeloproliferative disorder
131950	Epidermolysis bullosa, Ogna type
132700	Cylindromatosis
132800	Basal cell carcinoma
132800	Epithelioma, self-healing, squamous 1, Ferguson-Smith type
133170	Erythremia
133171	[Erythrocytosis, familial], 133100
133200	Erythrokeratoderma variabilis
133510	Trichothiodystrophy
133510	Xeroderma pigmentosum, group B
133700	Chondrosarcoma, 215300
133700	Exostoses, multiple, type 1
133701	Exostoses, multiple, type 2
133780	Vitreoretinopathy, exudative, familial
134370	Factor H deficiency
134370	Hemolytic-uremic syndrome, 235400
134370	Memproliferative glomerulonephritis
134570	Factor XIIB deficiency
134580	Factor XIIB deficiency
134638	Systemic lupus erythematosus, susceptibility, 152700
134790	Hyperferritinemia-cataract syndrome, 600886
134820	Dysfibrinogenemia, alpha type, causing bleeding diathesis
134820	Dysfibrinogenemia, alpha type, causing recurrent thrombosis
134820	Amyloidosis, hereditary renal, 105200
134830	Dysfibrinogenemia, beta type
134850	Dysfibrinogenemia, gamma type
134850	Hypofibrinogenemia, gamma type
134934	Thanatophoric dysplasia, types I and II, 187600
134934	Achondroplasia, 100800

134934	Craniosynostosis, nonsyndromic
134934	Crouzon syndrome with acanthosis nigricans
134934	Hypochondroplasia, 146000
135300	Fibromatosis, gingival
135600	Ehlers-Danlos syndrome, type X
135700	Fibrosis of extraocular muscles, congenital, 1
135940	Ichthyosis vulgaris, 146700
136132	[Fish-odor syndrome], 602079
136350	Pfeiffer syndrome, 101600
136435	Ovarian dysgenesis, hypergonadotropic, with normal karyotype, 233300
136530	Male infertility, familial
136550	Macular dystrophy, North Carolina type
136836	Fucosyltransferase-6 deficiency
137350	Amyloidosis, Finnish type, 105120
137600	Iridogoniodysgenesis syndrome
138030	[Hyperproglucagonemia]
138033	Diabetes mellitus, type II
138040	Cortisol resistance
138079	Hyperinsulinism, familial, 602485
138079	MODY, type 2, 125851
138140	Glucose transport defect, blood-brain barrier
138190	Diabetes mellitus, noninsulin-dependent
138320	Hemolytic anemia due to glutathione peroxidase deficiency
138570	Non-insulin dependent diabetes mellitus, susceptibility to
138700	[Apolipoprotein H deficiency]
138971	Kostmann neutropenia, 202700
138981	Pulmonary alveolar proteinosis, 265120
139130	Hypertension, essential, susceptibility to, 145500
139191	Growth hormone deficient dwarfism
139250	Isolated growth hormone deficiency, Illig type with absent GH and Kowarski type with bioinactive GH
139320	Pituitary ACTH secreting adenoma
139320	Pseudohypoparathyroidism, type Ia, 103580
139320	Somatotrophinoma
139320	McCune-Albright polyostotic fibrous dysplasia, 174800
139330	Night blindness, congenital stationary
139350	Epidermolytic hyperkeratosis, 113800
139350	Keratoderma, palmoplantar, nonepidermolytic
139360	Pituitary ACTH-secreting adenoma
141750	Alpha-thalassemia/mental retardation syndrome, type 1
141800	Methemoglobinemias, alpha-
141800	Thalassemias, alpha-
141800	Erythremias, alpha-

141800	Heinz body anemias, alpha-
141850	Thalassemia, alpha-
141850	Erythrocytosis
141850	Heinz body anemia
141850	Hemoglobin H disease
141850	Hypochromic microcytic anemia
141900	Methemoglobinemias, beta-
141900	Sickle cell anemia
141900	Thalassemias, beta-
141900	Erythremias, beta-
141900	HPFH, deletion type
141900	Heinz body anemias, beta-
142000	Thalassemia due to Hb Lepore
142000	Thalassemia, delta-
142200	HPFH, nondeletion type A
142250	HPFH, nondeletion type G
142270	Hereditary persistence of fetal hemoglobin
142335	Hereditary persistence of fetal hemoglobin, heterocellular, Indian type
142410	Non-insulin-dependent diabetes mellitus-2, 601407
142410	Insulin-dependent diabetes mellitus
142410	MODY, type 3, 600496
142470	[Hereditary persistence of fetal hemoglobin, heterocellular]
142600	Hemolytic anemia due to hexokinase deficiency
142640	Thrombophilia due to elevated HRG
142680	Periodic fever, familial
142857	Pemphigoid, susceptibility to
142858	Beryllium disease, chronic, susceptibility to
142946	Holoprosencephaly-4
142959	Hand-foot-uterus syndrome, 140000
142989	Synpolydactyly, type II, 186000
143100	Huntington disease
143200	Wagner syndrome
143200	Erosive vitreoretinopathy
143890	Hypercholesterolemia, familial
144120	Hyperimmunoglobulin G1 syndrome
144200	Epidermolytic palmoplantar keratoderma
145001	Hyperparathyroidism-jaw tumor syndrome
145260	Pseudohypoaldosteronism, type II
145981	Hypocalciuric hypercalcemia, type II
146150	Hypomelanosis of Ito
146150	Hypomelanosis of Ito
146200	Hypoparathyroidism, familial
146740	Neutropenia, alloimmune neonatal

146740	Viral infections, recurrent
146740	Lupus erythematosus, systemic, susceptibility, 152700
146790	Lupus nephritis, susceptibility to
147020	Agammaglobulinemia, 601495
147050	Atopy
147061	Allergy and asthma susceptibility
147110	IgG2 deficiency, selective
147141	Leukemia, acute lymphoblastic
147200	[Kappa light chain deficiency]
147280	Hepatocellular carcinoma
147440	Growth retardation with deafness and mental retardation
147450	Amyotrophic lateral sclerosis, due to SOD1 deficiency, 105400
147545	Diabetes mellitus, noninsulin-dependent
147570	Interferon, immune, deficiency
147575	Myelodysplastic syndrome, preleukemic
147575	Myelogenous leukemia, acute
147575	Macrocytic anemia refractory, of 5q- syndrome, 153550
147670	Rabson-Mendenhall syndrome
147670	Diabetes mellitus, insulin-resistant, with acanthosis nigricans
147670	Leprechaunism
147680	Severe combined immunodeficiency due to IL2 deficiency
147781	Atopy, susceptibility to
147790	Leukemia, acute lymphocytic, with 4/11 translocation
147791	Jacobsen syndrome
148040	Epidermolysis bullosa simplex, Koebner, Dowling-Meara, and Weber-Cockayne types, 131900, 131760, 131800
148041	Pachyonychia congenita, Jadassohn-Lewandowsky type, 167200
148043	Meesmann corneal dystrophy, 122100
148065	White sponge nevus, 193900
148066	Epidermolysis bullosa simplex, Koebner, Dowling-Meara, and Weber-Cockayne types, 131900, 131760, 131800
148066	Epidermolysis bullosa simplex, recessive, 601001
148067	Nonepidermolytic palmoplantar keratoderma, 600962
148067	Pachyonychia congenita, Jadassohn-Lewandowsky type, 167200
148069	Pachyonychia congenita, Jackson-Lawler type, 167210
148070	Liver disease, susceptibility to, from hepatotoxins or viruses
148080	Epidermolytic hyperkeratosis, 113800
148370	Keratolytic winter erythema
148500	Tylosis with esophageal cancer
150100	Lactate dehydrogenase-B deficiency
150200	[Placental lactogen deficiency]
150210	Lactoferrin-deficient neutrophils, 245480
150230	Langer-Giedion syndrome
150240	Cutis laxa, marfanoid neonatal type

150250	Larsen syndrome, autosomal dominant
150270	Laryngeal adductor paralysis
150292	Epidermolysis bullosa, Herlitz junctional type, 226700
150310	Epidermolysis bullosa, Herlitz junctional type, 226700
150310	Epidermolysis bullosa, generalized atrophic benign, 226650
151385	Leukemia, acute myeloid
151390	Leukemia, acute T-cell
151440	Leukemia, T-cell acute lymphoblastoid
151670	Hepatic lipase deficiency
152427	Long QT syndrome-2
152445	Vohwinkel syndrome, 124500
152445	Erythrokeratoderma, progressive symmetric, 602036
152760	Hypogonadotropic hypogonadism due to GNRH deficiency, 227200
152790	Precocious puberty, male, 176410
152790	Leydig cell hypoplasia
153455	Cutis laxa, recessive, type I, 219100
153700	Macular dystrophy, vitelliform type
153840	Macular dystrophy, atypical vitelliform
153880	Macular dystrophy, dominant cystoid
154275	Malignant hyperthermia susceptibility 2
154276	Malignant hyperthermia susceptibility 3
154550	Carbohydrate-deficient glycoprotein syndrome, type Ib, 602579
154705	Marfan syndrome, type II
155600	Malignant melanoma, cutaneous
156225	Muscular dystrophy, congenital merosin-deficient
156232	Mesomelic dysplasia, Kantaputra type
156490	Neuroblastoma
156850	Cataract, congenital, with microphthalmia
157170	Holoprosencephaly-2
157640	PEO with mitochondrial DNA deletions, type 1
157655	Lactic acidosis due to defect in iron-sulfur cluster of complex I
157900	Moebius syndrome
158590	Spinal muscular atrophy-4
158900	Facioscapulohumeral muscular dystrophy-1A
159000	Muscular dystrophy, limb-girdle, type 1A
159001	Muscular dystrophy, limb-girdle, type 1B
159440	Charcot-Marie-Tooth neuropathy-1B, 118200
159440	Dejerine-Sottas disease, myelin P-related, 145900
159440	Hypomyelination, congenital
159555	Leukemia, myeloid/lymphoid or mixed-lineage
159595	Leukemia, transient, of Down syndrome
160760	Cardiomyopathy, familial hypertrophic, 1, 192600
160760	Central core disease, one form

160781	Cardiomyopathy, hypertrophic, mid-left ventricular chamber type
160900	Myotonic dystrophy
160980	Carney myxoma-endocrine complex
161015	Mitochondrial complex I deficiency, 252010
162100	Neuralgic amyotrophy with predilection for brachial plexus
162200	Neurofibromatosis, type 1
162200	Watson syndrome, 193520
163729	Hypertension, pregnancy-induced
163950	Noonan syndrome-1
163950	Cardiofaciocutaneous syndrome, 115150
164009	Leukemia, acute promyelocytic, NUMA/RARA type
164160	Obesity, severe, due to leptin deficiency
164200	Oculodentodigital dysplasia
164200	Syndactyly, type III, 186100
164500	Spinocerebellar ataxia-7
164731	Ovarian carcinoma, 167000
164860	Renal cell carcinoma, papillary, familial and sporadic
164953	Liposarcoma
165320	Hepatocellular carcinoma
165500	Optic atrophy 1
167000	Ovarian cancer, serous
167250	Paget disease of bone
168000	Paraganglioma, familial nonchromaffin, 1
168360	Paraneoplastic sensory neuropathy
168461	Multiple myeloma, 254250
168461	Parathyroid adenomatosis 1
168461	Centrocytic lymphoma
168468	Metaphyseal chondrodysplasia, Murk Jansen type, 156400
168470	Humoral hypercalcemia of malignancy
168500	Parietal foramina
168610	Parkinsonism-dementia with pallidopontonigral degeneration
169600	Hailey-Hailey disease
170261	Bare lymphocyte syndrome, type I, due to TAP2 deficiency
170500	Myotonia congenita, atypical acetazolamide-responsive
170500	Paramyotonia congenita, 168300
170500	Hyperkalemic periodic paralysis
170995	Zellweger syndrome-2
171050	Colchicine resistance
171060	Cholestasis, progressive familial intrahepatic, type III, 602347
171190	Hypertension, essential, 145500
171650	Lysosomal acid phosphatase deficiency
171760	Hypophosphatasia, adult, 146300
171760	Hypophosphatasia, infantile, 241500
171860	Hemolytic anemia due to phosphofructokinase deficiency



172400	Hemolytic anemia due to glucosephosphate isomerase deficiency
172400	Hydrops fetalis, one form
172411	Colorectal cancer, resistance to
172471	Glycogenosis, hepatic, autosomal
172490	Phosphorylase kinase deficiency of liver and muscle, 261750
173350	Plasminogen Tochigi disease
173350	Plasminogen deficiency, types I and II
173350	Thrombophilia, dysplasminogenemic
173360	Thrombophilia due to excessive plasminogen activator inhibitor
173360	Hemorrhagic diathesis due to PAI1 deficiency
173610	Platelet alpha/delta storage pool deficiency
173850	Polio, susceptibility to
173870	Xeroderma pigmentosum
173870	Fanconi anemia
173910	Polycystic kidney disease, adult, type II
174000	Medullary cystic kidney disease, AD
174900	Polyposis, juvenile intestinal
175100	Turcot syndrome, 276300
175100	Adenomatous polyposis coli
175100	Adenomatous polyposis coli, attenuated
175100	Colorectal cancer
175100	Desmoid disease, hereditary, 135290
175100	Gardner syndrome
176100	Porphyria cutanea tarda
176100	Porphyria, hepatoerythropoietic
176260	Episodic ataxia/myokymia syndrome, 160120
176261	Jervell and Lange-Nielsen syndrome, 220400
176300	[Dystransthyretinemic hyperthyroxinemia]
176300	Carpal tunnel syndrome, familial
176300	Amyloid neuropathy, familial, several allelic types
176300	Amyloidosis, senile systemic
176310	Leukemia, acute pre-B-cell
176450	Sacral agenesis-1
176640	Creutzfeldt-Jakob disease, 123400
176640	Gerstmann-Straussler disease, 137440
176640	Insomnia, fatal familial
176705	Breast cancer, sporadic
176730	Diabetes mellitus, rare form
176730	Hyperproinsulinemia, familial
176730	MODY, one form
176930	Dysprothrombinemia
176930	Hypoprothrombinemia
176960	Pituitary tumor, invasive
177070	Spherocytosis, hereditary, Japanese type

177070	Hermansky-Pudlak syndrome, 203300
177900	Psoriasis susceptibility-1
178300	Ptosis, hereditary congenital, 1
178600	Pulmonary hypertension, familial primary
178640	Pulmonary alveolar proteinosis, congenital, 265120
179095	Male infertility
179450	Ragweed sensitivity
179615	Reticulosis, familial histiocytic, 267700
179615	Severe combined immunodeficiency, B cell-negative, 601457
179616	Severe combined immunodeficiency, B cell-negative, 601457
179755	Renal cell carcinoma, papillary, 1
179820	[Hyperproreninemia]
180020	Retinal cone dystrophy-1
180069	Retinal dystrophy, autosomal recessive, childhood-onset
180069	Retinitis pigmentosa-20
180069	Leber congenital amaurosis-2, 204100
180071	Retinitis pigmentosa, autosomal recessive
180072	Night blindness, congenital stationary, type 3, 163500
180072	Retinitis pigmentosa, autosomal recessive
180100	Retinitis pigmentosa-1
180104	Retinitis pigmentosa-9
180105	Retinitis pigmentosa-10
180240	Leukemia, acute promyelocytic
180250	Retinol binding protein, deficiency of
180297	Anemia, hemolytic, Rh-null, suppressor type, 268150
180380	Night blindness, congenital stationery, rhodopsin-related
180380	Retinitis pigmentosa, autosomal recessive
180380	Retinitis pigmentosa-4, autosomal dominant
180385	Leukemia, acute T-cell
180721	Retinitis pigmentosa, digenic
180840	Susceptibility to IDDM
180860	Russell-Silver syndrome
180901	Malignant hyperthermia susceptibility 1, 145600
180901	Central core disease, 117000
181405	Scapuloperoneal spinal muscular atrophy, New England type
181430	Scapuloperoneal syndrome, myopathic type
181460	Schistosoma mansoni, susceptibility/resistance to
181510	Schizophrenia
181600	Sclerotylosis
182138	Anxiety-related personality traits
182280	Small-cell cancer of lung
182380	Glucose/galactose malabsorption
182381	Renal glucosuria, 253100
182452	Lung cancer, small cell

182500	Cataract, congenital
182600	Spastic paraplegia-3A
182601	Spastic paraplegia-4
182860	Pyropoikilocytosis
182860	Spherocytosis, recessive
182860	Elliptocytosis-2
182870	Spherocytosis-1
182870	Elliptocytosis-3
182870	Anemia, neonatal hemolytic, fatal and near-fatal
182900	Spherocytosis-2
185470	Myopathy due to succinate dehydrogenase deficiency
185800	Symphalangism, proximal
186580	Arthrocutaneouveal granulomatosis
186740	Immunodeficiency due to defect in CD3-gamma
186770	Leukemia, T-cell acute lymphocytic
186780	CD3, zeta chain, deficiency
186830	Immunodeficiency, T-cell receptor/CD3 complex
186855	Leukemia-2, T-cell acute lymphoblastic
186860	Leukemia/lymphoma, T-cell
186880	Leukemia/lymphoma, T-cell
186921	Leukemia, T-cell acute lymphoblastic
187040	Leukemia-1, T-cell acute lymphoblastic
188025	Thrombocytopenia, Paris-Trousseau type
188070	Bleeding disorder due to defective thromboxane A2 receptor
188540	Hypothyroidism, nongoitrous
188826	Sorsby fundus dystrophy, 136900
189800	Preeclampsia/eclampsia
190000	Atransferrinemia
190020	Bladder cancer, 109800
190040	Dermatofibrosarcoma protuberans
190040	Giant-cell fibroblastoma
190040	Meningioma, SIS-related
190070	Colorectal adenoma
190070	Colorectal cancer
190080	Burkitt lymphoma
190100	Geniospasm
190195	Ichthyosiform erythroderma, congenital, 242100
190195	Ichthyosis, lamellar, autosomal recessive, 242300
190300	Tremor, familial essential, 1
190350	Trichorhinophalangeal syndrome, type I
190450	Hemolytic anemia due to triosephosphate isomerase deficiency
190605	Triphalangeal thumb-polysyndactyly syndrome
190685	Down syndrome
190900	Colorblindness, tritan

191010	Cardiomyopathy, familial hypertrophic, 3, 115196
191030	Nemaline myopathy-1, 161800
191044	Cardiomyopathy, familial hypertrophic
191045	Cardiomyopathy, familial hypertrophic, 2, 115195
191092	Tuberous sclerosis-2
191100	Tuberous sclerosis-1
191181	Cervical carcinoma
191290	Segawa syndrome, recessive
191315	Insensitivity to pain, congenital, with anhidrosis, 256800
192340	Diabetes insipidus, neurohypophyseal, 125700
192500	Jervell and Lange-Nielsen syndrome, 220400
192500	Long QT syndrome-1
192974	Neonatal alloimmune thrombocytopenia
192974	Glycoprotein Ia deficiency
193235	Vitreoretinopathy, neovascular inflammatory
193300	Renal cell carcinoma
193300	von Hippel-Lindau syndrome
194070	Wilms tumor, type 1
194070	Denys-Drash syndrome
194070	Frasier syndrome, 136680
194071	Wilms tumor, type 2
194071	Adrenocortical carcinoma, hereditary, 202300
194190	Wolf-Hirschhorn syndrome
200150	Choreoacanthocytosis
200350	Acetyl-CoA carboxylase deficiency
200990	Acrocallosal syndrome
201450	Acyl-CoA dehydrogenase, medium chain, deficiency of
201460	Acyl-CoA dehydrogenase, long chain, deficiency of
201470	Acyl-CoA dehydrogenase, short-chain, deficiency of
201810	3-beta-hydroxysteroid dehydrogenase, type II, deficiency
201910	Adrenal hyperplasia, congenital, due to 21-hydroxylase deficiency
202010	Adrenal hyperplasia, congenital, due to 11-beta-hydroxylase deficiency
202010	Aldosteronism, glucocorticoid-remediable
202200	Glucocorticoid deficiency, due to ACTH unresponsiveness
203100	Waardenburg syndrome/ocular albinism, digenic, 103470
203100	Albinism, oculocutaneous, type IA
203310	Ocular albinism, autosomal recessive
203500	Alkaptonuria
203750	3-ketothiolase deficiency
203800	Alstrom syndrome
204500	Ceroid-lipofuscinosis, neuronal 2, classic late infantile
205100	Amyotrophic lateral sclerosis, juvenile
205900	Anemia, Diamond-Blackfan

207750	Hyperlipoproteinemia, type Ib
207800	Argininemia
208250	Jacobs syndrome
209900	Bardet-Biedl syndrome 2
209901	Bardet-Biedl syndrome 1
211420	Breast cancer, ductal
213700	Cerebrotendinous xanthomatosis
214400	Charcot-Marie-Tooth neuropathy-4A
215700	Citrullinemia
216900	Achromatopsia
216950	C1r/C1s deficiency, combined
217000	C2 deficiency
217030	C3b inactivator deficiency
217300	Cornea plana congenita, recessive
218000	Andermann syndrome
221770	Polycystic lipomembranous osteodysplasia with sclerosing leukencephalopathy
221820	Gliososis, familial progressive subcortical
222100	Diabetes mellitus, insulin-dependent-1
222700	Lysinuric protein intolerance
222800	Hemolytic anemia due to bisphosphoglycerate mutase deficiency
222900	Sucrose intolerance
223000	Lactase deficiency, adult, 223100
223000	Lactase deficiency, congenital
223360	Dopamine-beta-hydroxylase deficiency
223900	Dysautonomia, familial
227220	[Eye color, brown]
227400	Thromboembolism susceptibility due to factor V Leiden
227400	Hemorrhagic diathesis due to factor V deficiency
227646	Fanconi anemia, type D
228960	[Kininogen deficiency]
229000	Fletcher factor deficiency
229300	Friedreich ataxia
229300	Friedreich ataxia with retained reflexes
229600	Fructose intolerance
230000	Fucosidosis
230200	Galactokinase deficiency with cataracts
230350	Galactose epimerase deficiency
230400	Galactosemia
230450	Hemolytic anemia due to gamma-glutamylcysteine synthetase deficiency
230800	Gaucher disease
230800	Gaucher disease with cardiovascular calcification
231550	Achalasia-addisonianism-alacrimia syndrome

231670	Glutaricaciduria, type I
231680	Glutaricaciduria, type IIA
231950	Glutathioninuria
232050	Propionicacidemia, type II or pccB type
232200	Glycogen storage disease I
232600	McArdle disease
232700	Glycogen storage disease VI
233100	[Renal glucosuria]
233700	Chronic granulomatous disease due to deficiency of NCF-1
233710	Chronic granulomatous disease due to deficiency of NCF-2
234200	Neurodegeneration with brain iron accumulation
235200	Hemochromatosis
235800	[Histidinemia]
236100	Holoprosencephaly-1
236200	Homocystinuria, B6-responsive and nonresponsive types
236700	McKusick-Kaufman syndrome
236730	Urofacial syndrome
238600	Chylomicronemia syndrome, familial
238600	Combined hyperlipemia, familial
238600	Hyperlipoproteinemia I
238600	Lipoprotein lipase deficiency
239100	Van Buchem disease
240300	Autoimmune polyglandular disease, type I
243500	Isovalericacidemia
245200	Krabbe disease
245349	Lacticacidemia due to PDX1 deficiency
246450	HMG-CoA lyase deficiency
246900	Lipoamide dehydrogenase deficiency
247200	Miller-Dieker lissencephaly syndrome
248510	Mannosidosis, beta-
248600	Maple syrup urine disease, type Ia
248610	Maple syrup urine disease, type II
248611	Maple syrup urine disease, type Ib
249000	Meckel syndrome
250100	Metachromatic leukodystrophy
250250	Cartilage-hair hypoplasia
250800	Methemoglobinemia, type I
250800	Methemoglobinemia, type II
250850	Hypermethioninemia, persistent, autosomal dominant, due to methionine adenosyltransferase I/III deficiency
251000	Methylmalonicaciduria, mutase deficiency type
251170	Mevalonicaciduria
251600	Microphthalmia, autosomal recessive
252500	Mucopolidosis II

252500	Mucopolipidosis III
252800	Mucopolysaccharidosis Ih
252800	Mucopolysaccharidosis Ih/s
252800	Mucopolysaccharidosis Is
252920	Sanfilippo syndrome, type B
252940	Sanfilippo syndrome, type D
253200	Maroteaux-Lamy syndrome, several forms
253250	Mulibrey nanism
253260	Biotinidase deficiency
253270	Multiple carboxylase deficiency, biotin-responsive
253800	Walker-Warburg syndrome, 236670
253800	Fukuyama type congenital muscular dystrophy
254210	Myasthenia gravis, familial infantile
255800	Schwartz-Jampel syndrome
256030	Nemaline myopathy-2
256540	Galactosialidosis
256550	Sialidosis, type I
256550	Sialidosis, type II
258501	3-methylglutaconicaciduria, type III
258900	Oroticaciduria
259700	Osteopetrosis, recessive
259770	Osteoporosis-pseudoglioma syndrome
259900	Hyperoxaluria, primary, type 1
261510	Pseudo-Zellweger syndrome
261515	Peroxisomal bifunctional enzyme deficiency
261600	Phenylketonuria
261600	[Hyperphenylalaninemia, mild]
261640	Phenylketonuria due to PTS deficiency
262000	Bjornstad syndrome
263200	Polycystic kidney disease, autosomal recessive
263700	Porphyria, congenital erythropoietic
264300	Pseudohermaphroditism, male, with gynecomastia
264470	Adrenoleukodystrophy, pseudoneonatal
264700	Pseudo-vitamin D dependency rickets 1
264900	Factor XI deficiency
266100	Pyridoxine dependency with seizures
266150	Pyruvate carboxylase deficiency
266200	Anemia, hemolytic, due to PK deficiency
266300	[Hair color, red]
267750	Knobloch syndrome
268800	Sandhoff disease, infantile, juvenile, and adult forms
268800	Spinal muscular atrophy, HEXB-related
268900	[Sarcosinemia]
269920	Salla disease

270100	Situs inversus viscerum
271245	Spinocerebellar ataxia-8, infantile, with sensory neuropathy
271900	Canavan disease
272800	Tay-Sachs disease
272800	[Hex A pseudodeficiency]
272800	GM2-gangliosidosis, juvenile, adult
273300	Male germ cell tumor
274600	Pendred syndrome
274600	Deafness, autosomal recessive 4
276000	Pancreatitis, hereditary, 167800
276000	Trypsinogen deficiency
276700	Tyrosinemia, type I
276710	Tyrosinemia, type III
276900	Usher syndrome, type 1A
276901	Usher syndrome, type 2
276902	Usher syndrome, type 3
276903	Usher syndrome, type 1B
276903	Deafness, autosomal dominant 11, neurosensory, 601317
276903	Deafness, autosomal recessive 2, neurosensory, 600060
277700	Werner syndrome
277730	Wernicke-Korsakoff syndrome, susceptibility to
277900	Wilson disease
278000	Wolman disease
278000	Cholesteryl ester storage disease
278300	Xanthinuria, type I
278700	Xeroderma pigmentosum, group A
278720	Xeroderma pigmentosum, group C
300008	Nephrolithiasis, type I, 310468
300008	Proteinuria, low molecular weight, with hypercalciuric nephrocalcinosis
300008	Dent disease, 300009
300008	Hypophosphatemia, type III
300031	Mental retardation, X-linked, FRAXF type
300044	Wernicke-Korsakoff syndrome, susceptibility to
300047	Mental retardation, X-linked 20
300048	Intestinal pseudoobstruction, neuronal, X-linked
300049	Nodular heterotopia, bilateral periventricular
300049	BPNH/MR syndrome
300055	Mental retardation with psychosis, pyramidal signs, and macroorchidism
300071	Night blindness, congenital stationary, type 2
300100	Adrenoleukodystrophy
300100	Adrenomyeloneuropathy
300104	Mental retardation, X-linked nonspecific, 309541



300110	Night blindness, congenital stationary, X-linked incomplete, 300071
300126	Dyskeratosis congenita-1, 305000
300600	Ocular albinism, Forsius-Eriksson type
301000	Thrombocytopenia, X-linked, 313900
301000	Wiskott-Aldrich syndrome
301201	Amelogenesis imperfecta-3, hypoplastic type
301590	Anophthalmos-1
301830	Arthrogryposis, X-linked (spinal muscular atrophy, infantile, X-linked)
301835	Arts syndrome
302060	Noncompaction of left ventricular myocardium, isolated
302060	Barth syndrome
302060	Cardiomyopathy, X-linked dilated, 300069
302060	Endocardial fibroelastosis-2
302960	Chondrodysplasia punctata, X-linked dominant
303700	Colorblindness, blue monochromatic
303800	Colorblindness, deutan
303900	Colorblindness, protan
304040	Charcot-Marie-Tooth neuropathy, X-linked-1, dominant, 302800
304800	Diabetes insipidus, nephrogenic
305100	Anhidrotic ectodermal dysplasia
305450	FG syndrome
305900	Favism
305900	G6PD deficiency
305900	Hemolytic anemia due to G6PD deficiency
306700	Hemophilia A
306995	[Homosexuality, male]
308310	Incontinentia pigmenti, familial
308840	Spastic paraplegia, 312900
308840	Hydrocephalus due to aqueductal stenosis, 307000
308840	MASA syndrome, 303350
309200	Manic-depressive illness, X-linked
309470	Mental retardation, X-linked, syndromic-3, with spastic diplegia
309500	Renpenning syndrome-1
309548	Mental retardation, X-linked, FRAXE type
309605	Mental retardation, X-linked, syndromic-4, with congenital contractures and low fingertip arches
309610	Mental retardation, X-linked, syndromic-2, with dysmorphism and cerebral atrophy
309620	Mental retardation-skeletal dysplasia
309850	Brunner syndrome
309900	Mucopolysaccharidosis II
310300	Emery-Dreifuss muscular dystrophy

310400	Myotubular myopathy, X-linked
310460	Myopia-1
310460	Bornholm eye disease
311050	Optic atrophy, X-linked
311300	Otopalatodigital syndrome, type I
311510	Waisman parkinsonism-mental retardation syndrome
311850	Phosphoribosyl pyrophosphate synthetase-related gout
312060	Properdin deficiency, X-linked
312760	Turner syndrome
313700	Perineal hypospadias
313700	Prostate cancer
313700	Spinal and bulbar muscular atrophy of Kennedy, 313200
313700	Breast cancer, male, with Reifenstein syndrome
313700	Androgen insensitivity, several forms
314250	Dystonia-3, torsion, with parkinsonism, Filipino type
314300	Goeminne TKCR syndrome
314400	Cardiac valvular dysplasia-1
314580	Wieacker-Wolff syndrome
600040	Colorectal cancer
600044	Thrombocythemia, essential, 187950
600045	Xeroderma pigmentosum, group E, subtype 2
600048	Breast cancer-3
600059	Retinitis pigmentosa-13
600065	Leukocyte adhesion deficiency, 116920
600079	Colon cancer
600095	Split hand/foot malformation, type 3
600101	Deafness, autosomal dominant 2
600105	Retinitis pigmentosa-12, autosomal recessive
600119	Muscular dystrophy, Duchenne-like, type 2
600119	Adhalinopathy, primary
600138	Retinitis pigmentosa-11
600140	Rubenstein-Taybi syndrome, 180849
600143	Epilepsy, progressive, with mental retardation
600163	Long QT syndrome-3
600173	SCID, autosomal recessive, T-negative/B-positive type
600175	Spinal muscular atrophy, congenital nonprogressive, of lower limbs
600179	Leber congenital amaurosis, type I, 204000
600185	Pancreatic cancer
600185	Breast cancer 2, early onset
600194	Ichthyosis bullosa of Siemens, 146800
600202	Dyslexia, specific, 2
600211	Cleidocranial dysplasia, 119600
600228	Pseudohypoaldosteronism, type I, 264350

600231	Palmoplantar keratoderma, Bothnia type
600234	HMG-CoA synthase-2 deficiency
600243	Temperature-sensitive apoptosis
600258	Colorectal cancer, hereditary nonpolyposis, type 3
600259	Turcot syndrome with glioblastoma, 276300
600259	Colorectal cancer, hereditary nonpolyposis, type 4
600261	Ehlers-Danlos-like syndrome
600273	Polycystic kidney disease, infantile severe, with tuberous sclerosis
600276	Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy, 125310
600281	Non-insulin-dependent diabetes mellitus, 125853
600281	MODY, type 1, 125850
600309	Atrioventricular canal defect-1
600310	Pseudoachondroplasia, 177170
600310	Epiphyseal dysplasia, multiple 1, 132400
600319	Diabetes mellitus, insulin-dependent, 4
600320	Insulin-dependent diabetes mellitus-5
600321	Diabetes mellitus, insulin-dependent, 7
600332	Rippling muscle disease-1
600354	Spinal muscular atrophy-1, 253300
600354	Spinal muscular atrophy-2, 253550
600354	Spinal muscular atrophy-3, 253400
600374	Bardet-Biedl syndrome 4
600414	Adrenoleukodystrophy, neonatal, 202370
600415	Ataxia with isolated vitamin E deficiency, 277460
600429	[Ii blood group, 110800]
600430	Brachydactyly-mental retardation syndrome
600467	Malignant hyperthermia susceptibility 4
600510	Pigment dispersion syndrome
600511	Schizophrenia-3
600512	Epilepsy, partial
600525	Trichodontoosseous syndrome, 190320
600528	CPT deficiency, hepatic, type I, 255120
600536	Myopathy, congenital
600542	Chondrosarcoma, extraskeletal myxoid
600617	Lipoid adrenal hyperplasia, 201710
600618	Leukemia, acute lymphoblastic
600623	Prostate cancer, 176807
600631	Enuresis, nocturnal, 1
600650	Myopathy due to CPT II deficiency, 255110
600650	CPT deficiency, hepatic, type II, 600649
600652	Deafness, autosomal dominant 4
600669	Epilepsy, generalized, idiopathic
600678	Cancer susceptibility

600700	Lipoma
600701	Lipoma
600722	Ceroid lipofuscinosis, neuronal, variant juvenile type, with granular osmiophilic deposits
600722	Ceroid lipofuscinosis, neuronal-1, infantile, 256730
600725	Holoprosencephaly-3, 142945
600757	Orofacial cleft-3
600759	Alzheimer disease-4
600792	Deafness, autosomal recessive 5
600807	Bronchial asthma
600808	Enuresis, nocturnal, 2
600811	Xeroderma pigmentosum, group E, DDB-negative subtype, 278740
600839	Bartter syndrome, 241200
600850	Schizophrenia disorder-4
600856	Beckwith-Wiedemann syndrome, 130650
600881	Cataract, congenital, zonular, with sutural opacities
600882	Charcot-Marie-Tooth neuropathy-2B
600883	Diabetes mellitus, insulin-dependent, 8
600884	Cardiomyopathy, familial dilated 1B
600887	Endometrial carcinoma
600897	Cataract, zonular pulverulent-1, 116200
600899	Severe combined immunodeficiency, type I, 202500
600918	Cystinuria, type III
600919	Long QT syndrome-4 with sinus bradycardia
600923	Porphyria variegata, 176200
600956	Persistent Mullerian duct syndrome, type II, 261550
600957	Persistent Mullerian duct syndrome, type I, 261550
600958	Cardiomyopathy, familial hypertrophic, 4, 115197
600964	Refsum disease, adult, with increased pipecolicacidemia
600965	Deafness, autosomal dominant 6
600968	Gitelman syndrome, 263800
600971	Deafness, autosomal recessive 6
600974	Deafness, autosomal recessive 7
600975	Glaucoma 3, primary infantile, B
600977	Cone dystrophy, progressive
600994	Deafness, autosomal dominant 5
600995	Nephrotic syndrome, idiopathic, steroid-resistant
600996	Arrhythmogenic right ventricular dysplasia-2
600998	Bleeding diathesis due to GNAQ deficiency
601011	Spinocerebellar ataxia-6, 183086
601011	Cerebellar ataxia, pure
601011	Episodic ataxia, type 2, 108500
601011	Hemiplegic migraine, familial, 141500

601071	Deafness, autosomal recessive 9
601072	Deafness, autosomal recessive 8
601105	Pycnodysostosis, 265800
601107	Dubin-Johnson syndrome, 237500
601130	Tolbutamide poor metabolizer
601145	Epilepsy, progressive myoclonic 1, 254800
601154	Cardiomyopathy, dilated, 1E
601199	Neonatal hyperparathyroidism, 239200
601199	Hypocalcemia, autosomal dominant, 601198
601199	Hypocalciuric hypercalcemia, type I, 145980
601202	Cataract, anterior polar-2
601208	Insulin-dependent diabetes mellitus-11
601226	Progressive external ophthalmoplegia, type 2
601238	Cerebellar ataxia, Cayman type
601253	Muscular dystrophy, limb-girdle, type IC
601267	HIV infection, susceptibility/resistance to
601277	Ichthyosis, lamellar, type 2
601282	Muscular dystrophy with epidermolysis bullosa simplex, 226670
601284	Hereditary hemorrhagic telangiectasia-2, 600376
601313	Polycystic kidney disease, adult type I, 173900
601316	Deafness, autosomal dominant 10
601318	Diabetes mellitus, insulin-dependent, 13
601363	Wilms tumor, type 4
601369	Deafness, autosomal dominant 9
601373	HIV infection, susceptibility/resistance to
601382	Charcot-Marie-Tooth neuropathy-4B
601385	Prostate cancer
601386	Deafness, autosomal recessive 12
601399	Platelet disorder, familial, with associated myeloid malignancy
601406	B-cell non-Hodgkin lymphoma, high-grade
601410	Diabetes mellitus, transient neonatal
601412	Deafness, autosomal dominant 7
601414	Retinitis pigmentosa-18
601455	Hereditary motor and sensory neuropathy, Lom type
601471	Moebius syndrome-2
601493	Cardiomyopathy, dilated 1C
601494	Cardiomyopathy, familial, dilated-2
601499	Rieger syndrome, type 2
601517	Spinocerebellar ataxia-2, 183090
601518	Prostate cancer, hereditary, 1, 176807
601542	Rieger syndrome, type 1, 180500
601545	Lissencephaly-1
601556	Spinocerebellar ataxia-1, 164400
601596	Charcot-Marie-Tooth neuropathy, demyelinating

601604	Mycobacterial and salmonella infections, susceptibility to
601620	Holt-Oram syndrome, 142900
601621	Ulnar-mammary syndrome, 181450
601622	Saethre-Chotzen syndrome, 101400
601623	Angelman syndrome
601649	Blepharophimosis, epicanthus inversus, and ptosis, type 2
601650	Paraganglioma, familial nonchromaffin, 2
601652	Glaucoma 1A, primary open angle, juvenile-onset, 137750
601653	Branchiootic syndrome
601653	Branchiootorenal syndrome, 113650
601666	Insulin-dependent diabetes mellitus-15
601669	Hirschsprung disease, one form
601676	Acute insulin response
601680	Distal arthrogryposis, type 2B
601682	Glaucoma 1C, primary open angle
601687	Meesmann corneal dystrophy, 122100
601690	Platelet-activating factor acetylhydrolase deficiency
601691	Retinitis pigmentosa-19, 601718
601691	Stargardt disease-1, 248200
601691	Cone-rod dystrophy 3
601691	Fundus flavimaculatus with macular dystrophy, 248200
601692	Reis-Bucklers corneal dystrophy
601692	Corneal dystrophy, Avellino type
601692	Corneal dystrophy, Groenouw type I, 121900
601692	Corneal dystrophy, lattice type I, 122200
601718	Retinitis pigmentosa-19
601744	Systemic lupus erythematosus, susceptibility to, 1
601757	Rhizomelic chondrodysplasia punctata, type 1, 215100
601768	Leukemia, acute myeloid
601769	Osteoporosis, involutional
601769	Rickets, vitamin D-resistant, 277440
601771	Glaucoma 3A, primary infantile, 231300
601777	Cone dystrophy, progressive
601780	Ceroid-lipofuscinosis, neuronal-6, variant late infantile
601785	Carbohydrate-deficient glycoprotein syndrome, type I, 212065
601800	[Hair color, brown]
601843	Hypothyroidism, congenital, 274400
601844	Pseudohypoaldosteronism type II
601846	Muscular dystrophy with rimmed vacuoles
601850	Retinitis pigmentosa-deafness syndrome
601863	Bare lymphocyte syndrome, complementation group C
601868	Deafness, autosomal dominant 13
601884	[High bone mass]
601889	Lymphoma, diffuse large cell

601920	Alagille syndrome, 118450
601928	Monilethrix, 158000
601954	Muscular dystrophy, limb-girdle, type 2G
601969	Glioblastoma multiforme, 137800
601969	Medulloblastoma, 155255
601975	Ectodermal dysplasia/skin fragility syndrome
601990	Neuroblastoma
602011	Pancreatic endocrine tumors
602014	Hypomagnesemia with secondary hypocalcemia
602023	Bartter syndrome, type 3
602025	Obesity/hyperinsulinism, susceptibility to
602026	Refsum disease, 266500
602067	Cardiomyopathy, dilated, 1F
602081	Speech-language disorder-1
602082	Corneal dystrophy, Thiel-Behnke type
602086	Arrhythmogenic right ventricular dysplasia-3
602087	Arrhythmogenic right ventricular dysplasia-4
602088	Nephronophthisis, infantile
602089	Hemangioma, capillary, hereditary
602091	Marfan syndrome, atypical
602092	Deafness, autosomal recessive 18
602094	Lipodystrophy, familial partial
602096	Alzheimer disease-5
602116	Glioma
602117	Prader-Willi syndrome
602121	Deafness, autosomal dominant nonsyndromic sensorineural, 1, 124900
602134	Tremor, familial essential, 2
602136	Refsum disease, infantile, 266510
602136	Zellweger syndrome-1, 214100
602136	Adrenoleukodystrophy, neonatal, 202370
602153	Monilethrix, 158000
602216	Peutz-Jeghers syndrome, 175200
602225	Cone-rod retinal dystrophy-2, 120970
602225	Leber congenital amaurosis, type III
602232	Epilepsy, benign neonatal, type 2, 121201
602235	Epilepsy, benign, neonatal, type 1, 121200
602279	Oculopharyngeal muscular dystrophy, 164300
602279	Oculopharyngeal muscular dystrophy, autosomal recessive, 257950
602280	Retinitis pigmentosa-14, 600132
602403	Alzheimer disease, susceptibility to
602404	Parkinson disease, type 3
602421	Sweat chloride elevation without CF

602421	Congenital bilateral absence of vas deferens, 277180
602421	Cystic fibrosis, 219700
602447	Coronary artery disease, susceptibility to
602460	Deafness, autosomal dominant 15, 602459
602475	Ossification of posterior longitudinal ligament of spine
602476	Febrile convulsions, familial, 1
602477	Febrile convulsions, familial, 2
602491	Hyperlipidemia, familial combined, 1
602522	Bartter syndrome, infantile, with sensorineural deafness
602544	Parkinson disease, juvenile, type 2, 600116
602574	Deafness, autosomal dominant 12, 601842
602574	Deafness, autosomal dominant 8, 601543
602616	Carbohydrate-deficient glycoprotein syndrome, type II, 212066
602629	Dystonia-6, torsion
602631	Rhabdomyosarcoma, 268210
602631	Breast Cancer
602667	Nijmegen breakage syndrome, 251260
602716	Nephrosis-1, congenital, Finnish type, 256300
602771	Muscular dystrophy, congenital, with early spine rigidity
602772	Retinitis pigmentosa-24
602782	Faisalabad histiocytosis

### ***Polynucleotide and Polypeptide Variants***

[0071] The present invention is also directed to variants of the ovarian associated polynucleotide sequence disclosed in SEQ ID NO:X or the complementary strand thereto, nucleotide sequences encoding the polypeptide of SEQ ID NO:Y, the nucleotide sequence of SEQ ID NO:X encoding the polypeptide sequence as defined in column 6 of Table 1, nucleotide sequences encoding the polypeptide as defined in column 6 of Table 1, the nucleotide sequence as defined in columns 8 and 9 of Table 2, nucleotide sequences encoding the polypeptide encoded by the nucleotide sequence as defined in columns 8 and 9 of Table 2, the cDNA sequence contained in Clone ID NO:Z, and/or nucleotide sequences encoding a polypeptide encoded by the cDNA sequence contained in Clone ID NO:Z.

[0072] The present invention also encompasses variants of the polypeptide sequence disclosed in SEQ ID NO:Y, a polypeptide sequence as defined in column 6 of



Table 1, a polypeptide sequence encoded by the polynucleotide sequence in SEQ ID NO:X, a polypeptide sequence encoded by the nucleotide sequence as defined in columns 8 and 9 of Table 2, a polypeptide sequence encoded by the complement of the polynucleotide sequence in SEQ ID NO:X, and/or a polypeptide sequence encoded by the cDNA sequence contained in Clone ID NO:Z.

[0073] "Variant" refers to a polynucleotide or polypeptide differing from the polynucleotide or polypeptide of the present invention, but retaining essential properties thereof. Generally, variants are overall closely similar, and, in many regions, identical to the polynucleotide or polypeptide of the present invention.

[0074] Thus, one aspect of the invention provides an isolated nucleic acid molecule comprising, or alternatively consisting of, a polynucleotide having a nucleotide sequence selected from the group consisting of: (a) a nucleotide sequence described in SEQ ID NO:X or contained in the cDNA sequence of Clone ID NO:Z; (b) a nucleotide sequence in SEQ ID NO:X or the cDNA in Clone ID NO:Z which encodes a mature ovarian associated polypeptide; (c) a nucleotide sequence in SEQ ID NO:X or the cDNA sequence of Clone ID NO:Z, which encodes a biologically active fragment of an ovarian associated polypeptide; (d) a nucleotide sequence in SEQ ID NO:X or the cDNA sequence of Clone ID NO:Z, which encodes an antigenic fragment of an ovarian associated polypeptide; (e) a nucleotide sequence encoding an ovarian associated polypeptide having the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; (f) a nucleotide sequence encoding a mature ovarian associated polypeptide of the amino acid sequence of SEQ ID NO:Y or the amino acid sequence encoded by the cDNA in Clone ID NO:Z; (g) a nucleotide sequence encoding a biologically active fragment of an ovarian associated polypeptide having the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; (h) a nucleotide sequence encoding an antigenic fragment of an ovarian associated polypeptide having the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; and (i) a nucleotide sequence complementary to any of the nucleotide sequences in (a), (b), (c), (d), (e), (f), (g), or (h), above.

[0075] The present invention is also directed to nucleic acid molecules which comprise, or alternatively consist of, a nucleotide sequence which is at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99% or 100%, identical to, for example, any of the nucleotide sequences in (a), (b), (c), (d), (e), (f), (g), (h), or (i) above, the nucleotide coding sequence in SEQ ID NO:X or the complementary strand thereto, the nucleotide coding sequence of the cDNA contained in Clone ID NO:Z or the complementary strand thereto, a nucleotide sequence encoding the polypeptide of SEQ ID NO:Y, a nucleotide sequence encoding a polypeptide sequence encoded by the nucleotide sequence in SEQ ID NO:X, a polypeptide sequence encoded by the complement of the polynucleotide sequence in SEQ ID NO:X, a nucleotide sequence encoding the polypeptide encoded by the cDNA contained in Clone ID NO:Z, the nucleotide coding sequence in SEQ ID NO:X as defined in columns 8 and 9 of Table 2 or the complementary strand thereto, a nucleotide sequence encoding the polypeptide encoded by the nucleotide sequence in SEQ ID NO:X as defined in columns 8 and 9 of Table 2 or the complementary strand thereto, the nucleotide sequence in SEQ ID NO:X encoding the polypeptide sequence as defined in column 6 of Table 1 or the complementary strand thereto, nucleotide sequences encoding a polypeptide as defined in column 6 of Table 1 or the complementary strand thereto, and/or polynucleotide fragments of any of these nucleic acid molecules (e.g., those fragments described herein). Polynucleotides which hybridize to the complement of these nucleic acid molecules under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention, as are polypeptides encoded by these polynucleotides and nucleic acids.

[0076] In a preferred embodiment, the invention encompasses nucleic acid molecules which comprise, or alternatively, consist of a polynucleotide which hybridizes under stringent hybridization conditions, or alternatively, under lower stringency conditions, to a polynucleotide in (a), (b), (c), (d), (e), (f), (g), (h), or (i) above, as are polypeptides encoded by these polynucleotides. In another preferred embodiment, polynucleotides which hybridize to the complement of these nucleic acid molecules under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention, as are polypeptides encoded by these polynucleotides.

[0077] In another embodiment, the invention provides a purified protein comprising, or alternatively consisting of, a polypeptide having an amino acid sequence selected from the group consisting of: (a) the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; (b) the amino acid sequence of a mature ovarian associated polypeptide having the amino acid sequence of SEQ ID NO:Y or the amino acid sequence encoded by the cDNA in Clone ID NO:Z; (c) the amino acid sequence of a biologically active fragment of an ovarian associated polypeptide having the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z; and (d) the amino acid sequence of an antigenic fragment of an ovarian associated polypeptide having the complete amino acid sequence of SEQ ID NO:Y or the complete amino acid sequence encoded by the cDNA in Clone ID NO:Z.

[0078] The present invention is also directed to proteins which comprise, or alternatively consist of, an amino acid sequence which is at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99% or 100%, identical to, for example, any of the amino acid sequences in (a), (b), (c), or (d), above, the amino acid sequence shown in SEQ ID NO:Y, the amino acid sequence encoded by the cDNA contained in Clone ID NO:Z, the amino acid sequence of the polypeptide encoded by the nucleotide sequence in SEQ ID NO:X as defined in columns 8 and 9 of Table 2, the amino acid sequence as defined in column 6 of Table 1, an amino acid sequence encoded by the nucleotide sequence in SEQ ID NO:X, and an amino acid sequence encoded by the complement of the polynucleotide sequence in SEQ ID NO:X. Fragments of these polypeptides are also provided (e.g., those fragments described herein). Further proteins encoded by polynucleotides which hybridize to the complement of the nucleic acid molecules encoding these amino acid sequences under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention, as are the polynucleotides encoding these proteins.

[0079] By a nucleic acid having a nucleotide sequence at least, for example, 95% "identical" to a reference nucleotide sequence of the present invention, it is intended that the nucleotide sequence of the nucleic acid is identical to the reference sequence except that the nucleotide sequence may include up to five point mutations per each 100

nucleotides of the reference nucleotide sequence encoding the polypeptide. In other words, to obtain a nucleic acid having a nucleotide sequence at least 95% identical to a reference nucleotide sequence, up to 5% of the nucleotides in the reference sequence may be deleted or substituted with another nucleotide, or a number of nucleotides up to 5% of the total nucleotides in the reference sequence may be inserted into the reference sequence. The query sequence may be an entire sequence referred to in Table 1 or 2 as the ORF (open reading frame), or any fragment specified, as described herein.

**[0080]** As a practical matter, whether any particular nucleic acid molecule or polypeptide is at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% identical to a nucleotide sequence of the present invention can be determined conventionally using known computer programs. A preferred method for determining the best overall match between a query sequence (a sequence of the present invention) and a subject sequence, also referred to as a global sequence alignment, can be determined using the FASTDB computer program based on the algorithm of Brutlag et al. (Comp. App. Biosci. 6:237-245 (1990)). In a sequence alignment the query and subject sequences are both DNA sequences. An RNA sequence can be compared by converting U's to T's. The result of said global sequence alignment is expressed as percent identity. Preferred parameters used in a FASTDB alignment of DNA sequences to calculate percent identity are: Matrix=Unitary, k-tuple=4, Mismatch Penalty=1, Joining Penalty=30, Randomization Group Length=0, Cutoff Score=1, Gap Penalty=5, Gap Size Penalty 0.05, Window Size=500 or the length of the subject nucleotide sequence, whichever is shorter.

**[0081]** If the subject sequence is shorter than the query sequence because of 5' or 3' deletions, not because of internal deletions, a manual correction must be made to the results. This is because the FASTDB program does not account for 5' and 3' truncations of the subject sequence when calculating percent identity. For subject sequences truncated at the 5' or 3' ends, relative to the query sequence, the percent identity is corrected by calculating the number of bases of the query sequence that are 5' and 3' of the subject sequence, which are not matched/aligned, as a percent of the total bases of the query sequence. Whether a nucleotide is matched/aligned is determined by results of the FASTDB sequence alignment. This percentage is then subtracted from the percent identity, calculated by the above FASTDB program using the specified parameters, to

arrive at a final percent identity score. This corrected score is what is used for the purposes of the present invention. Only bases outside the 5' and 3' bases of the subject sequence, as displayed by the FASTDB alignment, which are not matched/aligned with the query sequence, are calculated for the purposes of manually adjusting the percent identity score.

[0082] For example, a 90 base subject sequence is aligned to a 100 base query sequence to determine percent identity. The deletions occur at the 5' end of the subject sequence and therefore, the FASTDB alignment does not show a matched/alignment of the first 10 bases at 5' end. The 10 unpaired bases represent 10% of the sequence (number of bases at the 5' and 3' ends not matched/total number of bases in the query sequence) so 10% is subtracted from the percent identity score calculated by the FASTDB program. If the remaining 90 bases were perfectly matched the final percent identity would be 90%. In another example, a 90 base subject sequence is compared with a 100 base query sequence. This time the deletions are internal deletions so that there are no bases on the 5' or 3' of the subject sequence which are not matched/aligned with the query. In this case the percent identity calculated by FASTDB is not manually corrected. Once again, only bases 5' and 3' of the subject sequence which are not matched/aligned with the query sequence are manually corrected for. No other manual corrections are to be made for the purposes of the present invention.

[0083] By a polypeptide having an amino acid sequence at least, for example, 95% "identical" to a query amino acid sequence of the present invention, it is intended that the amino acid sequence of the subject polypeptide is identical to the query sequence except that the subject polypeptide sequence may include up to five amino acid alterations per each 100 amino acids of the query amino acid sequence. In other words, to obtain a polypeptide having an amino acid sequence at least 95% identical to a query amino acid sequence, up to 5% of the amino acid residues in the subject sequence may be inserted, deleted, (indels) or substituted with another amino acid. These alterations of the reference sequence may occur at the amino or carboxy terminal positions of the reference amino acid sequence or anywhere between those terminal positions, interspersed either individually among residues in the reference sequence or in one or more contiguous groups within the reference sequence.

[0084] As a practical matter, whether any particular polypeptide is at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% identical to, for instance, the amino acid sequence of a polypeptide referred to in Table 1 (e.g., an amino acid sequence identified in columns 5 or 6) or Table 2 (e.g., the amino acid sequence of the polypeptide encoded by the polynucleotide sequence defined in columns 8 and 9 of Table 2) or a fragment thereof, the amino acid sequence of the polypeptide encoded by the nucleotide sequence in SEQ ID NO:X or a fragment thereof, or an amino acid sequence of the polypeptide encoded by cDNA contained in Clone ID NO:Z, or a fragment thereof, can be determined conventionally using known computer programs. A preferred method for determining the best overall match between a query sequence (a sequence of the present invention) and a subject sequence, also referred to as a global sequence alignment, can be determined using the FASTDB computer program based on the algorithm of Brutlag et al. (Comp. App. Biosci.6:237-245 (1990)). In a sequence alignment the query and subject sequences are either both nucleotide sequences or both amino acid sequences. The result of said global sequence alignment is expressed as percent identity. Preferred parameters used in a FASTDB amino acid alignment are: Matrix=PAM 0, k-tuple=2, Mismatch Penalty=1, Joining Penalty=20, Randomization Group Length=0, Cutoff Score=1, Window Size=sequence length, Gap Penalty=5, Gap Size Penalty=0.05, Window Size=500 or the length of the subject amino acid sequence, whichever is shorter.

[0085] If the subject sequence is shorter than the query sequence due to N- or C-terminal deletions, not because of internal deletions, a manual correction must be made to the results. This is because the FASTDB program does not account for N- and C-terminal truncations of the subject sequence when calculating global percent identity. For subject sequences truncated at the N- and C-termini, relative to the query sequence, the percent identity is corrected by calculating the number of residues of the query sequence that are N- and C-terminal of the subject sequence, which are not matched/aligned with a corresponding subject residue, as a percent of the total bases of the query sequence. Whether a residue is matched/aligned is determined by results of the FASTDB sequence alignment. This percentage is then subtracted from the percent identity, calculated by the above FASTDB program using the specified parameters, to arrive at a final percent identity score. This final percent identity score is what is used for the purposes of the

present invention. Only residues to the N- and C-termini of the subject sequence, which are not matched/aligned with the query sequence, are considered for the purposes of manually adjusting the percent identity score. That is, only query residue positions outside the farthest N- and C- terminal residues of the subject sequence.

[0086] For example, a 90 amino acid residue subject sequence is aligned with a 100 residue query sequence to determine percent identity. The deletion occurs at the N-terminus of the subject sequence and therefore, the FASTDB alignment does not show a matching/alignment of the first 10 residues at the N-terminus. The 10 unpaired residues represent 10% of the sequence (number of residues at the N- and C- termini not matched/total number of residues in the query sequence) so 10% is subtracted from the percent identity score calculated by the FASTDB program. If the remaining 90 residues were perfectly matched the final percent identity would be 90%. In another example, a 90 residue subject sequence is compared with a 100 residue query sequence. This time the deletions are internal deletions so there are no residues at the N- or C-termini of the subject sequence which are not matched/aligned with the query. In this case the percent identity calculated by FASTDB is not manually corrected. Once again, only residue positions outside the N- and C-terminal ends of the subject sequence, as displayed in the FASTDB alignment, which are not matched/aligned with the query sequence are manually corrected for. No other manual corrections are to be made for the purposes of the present invention.

[0087] The polynucleotide variants of the invention may contain alterations in the coding regions, non-coding regions, or both. Especially preferred are polynucleotide variants containing alterations which produce silent substitutions, additions, or deletions, but do not alter the properties or activities of the encoded polypeptide. Nucleotide variants produced by silent substitutions due to the degeneracy of the genetic code are preferred. Moreover, polypeptide variants in which less than 50, less than 40, less than 30, less than 20, less than 10, or 5-50, 5-25, 5-10, 1-5, or 1-2 amino acids are substituted, deleted, or added in any combination are also preferred. Polynucleotide variants can be produced for a variety of reasons, e.g., to optimize codon expression for a particular host (change codons in the human mRNA to those preferred by a bacterial host such as *E. coli*).

[0088] Naturally occurring variants are called "allelic variants," and refer to one of several alternate forms of a gene occupying a given locus on a chromosome of an organism. (Genes II, Lewin, B., ed., John Wiley & Sons, New York (1985).) These allelic variants can vary at either the polynucleotide and/or polypeptide level and are included in the present invention. Alternatively, non-naturally occurring variants may be produced by mutagenesis techniques or by direct synthesis.

[0089] Using known methods of protein engineering and recombinant DNA technology, variants may be generated to improve or alter the characteristics of the polypeptides of the present invention. For instance, one or more amino acids can be deleted from the N-terminus or C-terminus of the polypeptides of the present invention without substantial loss of biological function. As an example, the authors of Ron et al., J. Biol. Chem. 268: 2984-2988 (1993), reported variant KGF proteins having heparin binding activity even after deleting 3, 8, or 27 amino-terminal amino acid residues. Similarly, Interferon gamma exhibited up to ten times higher activity after deleting 8-10 amino acid residues from the carboxy terminus of this protein. (Dobeli et al., J. Biotechnology 7:199-216 (1988).)

[0090] Moreover, ample evidence demonstrates that variants often retain a biological activity similar to that of the naturally occurring protein. For example, Gayle and coworkers (J. Biol. Chem. 268:22105-22111 (1993)) conducted extensive mutational analysis of human cytokine IL-1a. They used random mutagenesis to generate over 3,500 individual IL-1a mutants that averaged 2.5 amino acid changes per variant over the entire length of the molecule. Multiple mutations were examined at every possible amino acid position. The investigators found that "[m]ost of the molecule could be altered with little effect on either [binding or biological activity]." In fact, only 23 unique amino acid sequences, out of more than 3,500 nucleotide sequences examined, produced a protein that significantly differed in activity from wild-type.

[0091] Furthermore, even if deleting one or more amino acids from the N-terminus or C-terminus of a polypeptide results in modification or loss of one or more biological functions, other biological activities may still be retained. For example, the ability of a deletion variant to induce and/or to bind antibodies which recognize the secreted form will likely be retained when less than the majority of the residues of the secreted form are



removed from the N-terminus or C-terminus. Whether a particular polypeptide lacking N- or C-terminal residues of a protein retains such immunogenic activities can readily be determined by routine methods described herein and otherwise known in the art.

[0092] Thus, the invention further includes polypeptide variants which show a functional activity (e.g., biological activity) of the polypeptides of the invention. Such variants include deletions, insertions, inversions, repeats, and substitutions selected according to general rules known in the art so as have little effect on activity.

[0093] The present application is directed to nucleic acid molecules at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99% or 100% identical to the nucleic acid sequences disclosed herein, (e.g., encoding a polypeptide having the amino acid sequence of an N and/or C terminal deletion), irrespective of whether they encode a polypeptide having functional activity. This is because even where a particular nucleic acid molecule does not encode a polypeptide having functional activity, one of skill in the art would still know how to use the nucleic acid molecule, for instance, as a hybridization probe or a polymerase chain reaction (PCR) primer. Uses of the nucleic acid molecules of the present invention that do not encode a polypeptide having functional activity include, *inter alia*, (1) isolating a gene or allelic or splice variants thereof in a cDNA library; (2) *in situ* hybridization (e.g., "FISH") to metaphase chromosomal spreads to provide precise chromosomal location of the gene, as described in Verma et al., Human Chromosomes: A Manual of Basic Techniques, Pergamon Press, New York (1988); (3) Northern Blot analysis for detecting mRNA expression in specific tissues (e.g., normal ovarian tissues or diseased ovarian tissues); and (4) *in situ* hybridization (e.g., histochemistry) for detecting mRNA expression in specific tissues (e.g., normal ovarian tissues or diseased ovarian tissues).

[0094] Preferred, however, are nucleic acid molecules having sequences at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99% or 100% identical to the nucleic acid sequences disclosed herein, which do, in fact, encode a polypeptide having functional activity. By a polypeptide having "functional activity" is meant, a polypeptide capable of displaying one or more known functional activities associated with a full-length (complete) protein of the invention. Such functional activities include, but are not limited to, biological activity, antigenicity [ability to bind (or compete with a polypeptide of the

invention for binding) to an anti-polypeptide of the invention antibody], immunogenicity (ability to generate antibody which binds to a specific polypeptide of the invention), ability to form multimers with polypeptides of the invention, and ability to bind to a receptor or ligand for a polypeptide of the invention.

[0095] The functional activity of the polypeptides, and fragments, variants and derivatives of the invention, can be assayed by various methods.

[0096] For example, in one embodiment where one is assaying for the ability to bind or compete with full-length polypeptide of the present invention for binding to an anti-polypeptide of the invention antibody, various immunoassays known in the art can be used, including but not limited to, competitive and non-competitive assay systems using techniques such as radioimmunoassays, ELISA (enzyme linked immunosorbent assay), "sandwich" immunoassays, immunoradiometric assays, gel diffusion precipitation reactions, immunodiffusion assays, in situ immunoassays (using colloidal gold, enzyme or radioisotope labels, for example), western blots, precipitation reactions, agglutination assays (e.g., gel agglutination assays, hemagglutination assays), complement fixation assays, immunofluorescence assays, protein A assays, and immunoelectrophoresis assays, etc. In one embodiment, antibody binding is detected by detecting a label on the primary antibody. In another embodiment, the primary antibody is detected by detecting binding of a secondary antibody or reagent to the primary antibody. In a further embodiment, the secondary antibody is labeled. Many means are known in the art for detecting binding in an immunoassay and are within the scope of the present invention.

[0097] In another embodiment, where a ligand is identified, or the ability of a polypeptide fragment, variant or derivative of the invention to multimerize is being evaluated, binding can be assayed, e.g., by means well-known in the art, such as, for example, reducing and non-reducing gel chromatography, protein affinity chromatography, and affinity blotting. See generally, Phizicky et al., Microbiol. Rev. 59:94-123 (1995). In another embodiment, the ability of physiological correlates of a polypeptide of the present invention to bind to a substrate(s) of the polypeptide of the invention can be routinely assayed using techniques known in the art.

[0098] In addition, assays described herein (see Examples) and otherwise known in the art may routinely be applied to measure the ability of polypeptides of the present

invention and fragments, variants and derivatives thereof to elicit polypeptide related biological activity (either *in vitro* or *in vivo*). Other methods will be known to the skilled artisan and are within the scope of the invention.

[0100] Of course, due to the degeneracy of the genetic code, one of ordinary skill in the art will immediately recognize that a large number of the nucleic acid molecules having a sequence at least 80%, 85%, 90%, 95%, 96%, 97%, 98%, 99%, or 100% identical to, for example, the nucleic acid sequence of the cDNA contained in Clone ID NO:Z, a nucleic acid sequence referred to in Table 1 (e.g., SEQ ID NO:X), a nucleic acid sequence disclosed in Table 2 (e.g., the nucleic acid sequence delineated in columns 8 and 9) or fragments thereof, will encode polypeptides "having functional activity." In fact, since degenerate variants of any of these nucleotide sequences all encode the same polypeptide, in many instances, this will be clear to the skilled artisan even without performing the above described comparison assay. It will be further recognized in the art that, for such nucleic acid molecules that are not degenerate variants, a reasonable number will also encode a polypeptide having functional activity. This is because the skilled artisan is fully aware of amino acid substitutions that are either less likely or not likely to significantly effect protein function (e.g., replacing one aliphatic amino acid with a second aliphatic amino acid), as further described below.

[0101] For example, guidance concerning how to make phenotypically silent amino acid substitutions is provided in Bowie et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," Science 247:1306-1310 (1990), wherein the authors indicate that there are two main strategies for studying the tolerance of an amino acid sequence to change.

[0102] The first strategy exploits the tolerance of amino acid substitutions by natural selection during the process of evolution. By comparing amino acid sequences in different species, conserved amino acids can be identified. These conserved amino acids are likely important for protein function. In contrast, the amino acid positions where substitutions have been tolerated by natural selection indicates that these positions are not critical for protein function. Thus, positions tolerating amino acid substitution could be modified while still maintaining biological activity of the protein.

[0103] The second strategy uses genetic engineering to introduce amino acid changes at specific positions of a cloned gene to identify regions critical for protein function. For example, site directed mutagenesis or alanine-scanning mutagenesis (introduction of single alanine mutations at every residue in the molecule) can be used. See Cunningham et al., Science 244:1081-1085 (1989). The resulting mutant molecules can then be tested for biological activity.

[0104] As the authors state, these two strategies have revealed that proteins are surprisingly tolerant of amino acid substitutions. The authors further indicate which amino acid changes are likely to be permissive at certain amino acid positions in the protein. For example, most buried (within the tertiary structure of the protein) amino acid residues require nonpolar side chains, whereas few features of surface side chains are generally conserved. Moreover, tolerated conservative amino acid substitutions involve replacement of the aliphatic or hydrophobic amino acids Ala, Val, Leu and Ile; replacement of the hydroxyl residues Ser and Thr; replacement of the acidic residues Asp and Glu; replacement of the amide residues Asn and Gln, replacement of the basic residues Lys, Arg, and His; replacement of the aromatic residues Phe, Tyr, and Trp, and replacement of the small-sized amino acids Ala, Ser, Thr, Met, and Gly. Besides conservative amino acid substitutions, variants of the present invention include (i) substitutions with one or more of the non-conserved amino acid residues, where the substituted amino acid residues may or may not be one encoded by the genetic code, or (ii) substitutions with one or more of the amino acid residues having a substituent group, or (iii) fusion of the mature polypeptide with another compound, such as a compound to increase the stability and/or solubility of the polypeptide (for example, polyethylene glycol), or (iv) fusion of the polypeptide with additional amino acids, such as, for example, an IgG Fc fusion region peptide, serum albumin (preferably human serum albumin) or a fragment or variant thereof, or leader or secretory sequence, or a sequence facilitating purification. Such variant polypeptides are deemed to be within the scope of those skilled in the art from the teachings herein.

[0105] For example, polypeptide variants containing amino acid substitutions of charged amino acids with other charged or neutral amino acids may produce proteins with improved characteristics, such as less aggregation. Aggregation of pharmaceutical

formulations both reduces activity and increases clearance due to the aggregate's immunogenic activity. See Pinckard et al., Clin. Exp. Immunol. 2:331-340 (1967); Robbins et al., Diabetes 36: 838-845 (1987); Cleland et al., Crit. Rev. Therapeutic Drug Carrier Systems 10:307-377 (1993).

[0106] A further embodiment of the invention relates to polypeptides which comprise the amino acid sequence of a polypeptide having an amino acid sequence which contains at least one amino acid substitution, but not more than 50 amino acid substitutions, even more preferably, not more than 40 amino acid substitutions, still more preferably, not more than 30 amino acid substitutions, and still even more preferably, not more than 20 amino acid substitutions from a polypeptide sequence disclosed herein. Of course it is highly preferable for a polypeptide to have an amino acid sequence which comprises the amino acid sequence of a polypeptide of SEQ ID NO:Y, an amino acid sequence encoded by SEQ ID NO:X, an amino acid sequence encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2, an amino acid sequence encoded by the complement of SEQ ID NO:X, and/or the amino acid sequence encoded by cDNA contained in Clone ID NO:Z which contains, in order of ever-increasing preference, at least one, but not more than 10, 9, 8, 7, 6, 5, 4, 3, 2 or 1 amino acid substitutions.

[0107] In specific embodiments, the polypeptides of the invention comprise, or alternatively, consist of, fragments or variants of a reference amino acid sequence selected from: (a) the amino acid sequence of SEQ ID NO:Y or fragments thereof (e.g., the mature form and/or other fragments described herein); (b) the amino acid sequence encoded by SEQ ID NO:X or fragments thereof; (c) the amino acid sequence encoded by the complement of SEQ ID NO:X or fragments thereof; (d) the amino acid sequence encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2 or fragments thereof; and (e) the amino acid sequence encoded by cDNA contained in Clone ID NO:Z or fragments thereof; wherein the fragments or variants have 1-5, 5-10, 5-25, 5-50, 10-50 or 50-150, amino acid residue additions, substitutions, and/or deletions when compared to the reference amino acid sequence. In preferred embodiments, the amino acid substitutions are conservative. Polynucleotides encoding these polypeptides are also encompassed by the invention.

*Polynucleotide and Polypeptide Fragments*

[0108] The present invention is also directed to polynucleotide fragments of the polynucleotides (nucleic acids) of the invention. In the present invention, a "polynucleotide fragment" refers to a polynucleotide having a nucleic acid sequence which, for example: is a portion of the cDNA contained in Clone ID NO:Z or the complementary strand thereto; is a portion of the polynucleotide sequence encoding the polypeptide encoded by the cDNA contained in Clone ID NO:Z or the complementary strand thereto; is a portion of a polynucleotide sequence encoding the amino acid sequence encoded by the region of SEQ ID NO:X as defined in columns 8 and 9 of Table 2 or the complementary strand thereto; is a portion of the polynucleotide sequence of SEQ ID NO:X as defined in columns 8 and 9 of Table 2 or the complementary strand thereto; is a portion of the polynucleotide sequence in SEQ ID NO:X or the complementary strand thereto; is a polynucleotide sequence encoding a portion of the polypeptide of SEQ ID NO:Y; is a polynucleotide sequence encoding a portion of a polypeptide encoded by SEQ ID NO:X; or is a polynucleotide sequence encoding a portion of a polypeptide encoded by the complement of the polynucleotide sequence in SEQ ID NO:X.

[0109] The polynucleotide fragments of the invention are preferably at least about 15 nt, and more preferably at least about 20 nt, still more preferably at least about 30 nt, and even more preferably, at least about 40 nt, at least about 50 nt, at least about 75 nt, or at least about 150 nt in length. A fragment "at least 20 nt in length," for example, is intended to include 20 or more contiguous bases from the cDNA sequence contained in Clone ID NO:Z, or the nucleotide sequence shown in SEQ ID NO:X or the complementary strand thereto. In this context "about" includes the particularly recited value or a value larger or smaller by several (5, 4, 3, 2, or 1) nucleotides, at either terminus or at both termini. These nucleotide fragments have uses that include, but are not limited to, as diagnostic probes and primers as discussed herein. Of course, larger fragments (e.g., at least 160, 170, 180, 190, 200, 250, 500, 600, 1000, or 2000 nucleotides in length) are also encompassed by the invention.

[0110] Moreover, representative examples of polynucleotide fragments of the invention, comprise, or alternatively consist of, a sequence from about nucleotide number 1-50, 51-100, 101-150, 151-200, 201-250, 251-300, 301-350, 351-400, 401-450, 451-500,

501-550, 551-600, 651-700, 701-750, 751-800, 800-850, 851-900, 901-950, 951-1000, 1001-1050, 1051-1100, 1101-1150, 1151-1200, 1201-1250, 1251-1300, 1301-1350, 1351-1400, 1401-1450, 1451-1500, 1501-1550, 1551-1600, 1601-1650, 1651-1700, 1701-1750, 1751-1800, 1801-1850, 1851-1900, 1901-1950, 1951-2000, 2001-2050, 2051-2100, 2101-2150, 2151-2200, 2201-2250, 2251-2300, 2301-2350, 2351-2400, 2401-2450, 2451-2500, 2501-2550, 2551-2600, 2601-2650, 2651-2700, 2701-2750, 2751-2800, 2801-2850, 2851-2900, 2901-2950, 2951-3000, 3001-3050, 3051-3100, 3101-3150, 3151-3200, 3201-3250, 3251-3300, 3301-3350, 3351-3400, 3401-3450, 3451-3500, 3501-3550, 3551-3600, 3601-3650, 3651-3700, 3701-3750, 3751-3800, 3801-3850, 3851-3900, 3901-3950, 3951-4000, 4001-4050, 4051-4100, 4101-4150, 4151-4200, 4201-4250, 4251-4300, 4301-4350, 4351-4400, 4401-4450, 4451-4500, 4501-4550, 4551-4600, 4601-4650, 4651-4700, 4701-4750, 4751-4800, 4801-4850, 4851-4900, 4901-4950, 4951-5000, 5001-5050, 5051-5100, 5101-5150, 5151-5200, 5201-5250, 5251-5300, 5301-5350, 5351-5400, 5401-5450, 5451-5500, 5501-5550, 5551-5600, 5601-5650, 5651-5700, 5701-5750, 5751-5800, 5801-5850, 5851-5900, 5901-5950, 5951-6000, 6001-6050, 6051-6100, 6101-6150, 6151-6200, 6201-6250, 6251-6300, 6301-6350, 6351-6400, 6401-6450, 6451-6500, 6501-6550, 6551-6600, 6601-6650, 6651-6700, 6701-6750, 6751-6800, 6801-6850, 6851-6900, 6901-6950, 6951-7000, 7001-7050, 7051-7100, 7101-7150, 7151-7200, 7201-7250, 7251-7300 or 7301 to the end of SEQ ID NO:X, or the complementary strand thereto. In this context "about" includes the particularly recited range or a range larger or smaller by several (5, 4, 3, 2, or 1) nucleotides, at either terminus or at both termini. Preferably, these fragments encode a polypeptide which has a functional activity (e.g., biological activity). More preferably, these polynucleotides can be used as probes or primers as discussed herein. Polynucleotides which hybridize to one or more of these polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions are also encompassed by the invention, as are polypeptides encoded by these polynucleotides.

[0111] Further representative examples of polynucleotide fragments of the invention, comprise, or alternatively consist of, a sequence from about nucleotide number 1-50, 51-100, 101-150, 151-200, 201-250, 251-300, 301-350, 351-400, 401-450, 451-500, 501-550, 551-600, 651-700, 701-750, 751-800, 800-850, 851-900, 901-950, 951-1000, 1001-1050, 1051-1100, 1101-1150, 1151-1200, 1201-1250, 1251-1300, 1301-1350, 1351-

1400, 1401-1450, 1451-1500, 1501-1550, 1551-1600, 1601-1650, 1651-1700, 1701-1750, 1751-1800, 1801-1850, 1851-1900, 1901-1950, 1951-2000, 2001-2050, 2051-2100, 2101-2150, 2151-2200, 2201-2250, 2251-2300, 2301-2350, 2351-2400, 2401-2450, 2451-2500, 2501-2550, 2551-2600, 2601-2650, 2651-2700, 2701-2750, 2751-2800, 2801-2850, 2851-2900, 2901-2950, 2951-3000, 3001-3050, 3051-3100, 3101-3150, 3151-3200, 3201-3250, 3251-3300, 3301-3350, 3351-3400, 3401-3450, 3451-3500, 3501-3550, 3551-3600, 3601-3650, 3651-3700, 3701-3750, 3751-3800, 3801-3850, 3851-3900, 3901-3950, 3951-4000, 4001-4050, 4051-4100, 4101-4150, 4151-4200, 4201-4250, 4251-4300, 4301-4350, 4351-4400, 4401-4450, 4451-4500, 4501-4550, 4551-4600, 4601-4650, 4651-4700, 4701-4750, 4751-4800, 4801-4850, 4851-4900, 4901-4950, 4951-5000, 5001-5050, 5051-5100, 5101-5150, 5151-5200, 5201-5250, 5251-5300, 5301-5350, 5351-5400, 5401-5450, 5451-5500, 5501-5550, 5551-5600, 5601-5650, 5651-5700, 5701-5750, 5751-5800, 5801-5850, 5851-5900, 5901-5950, 5951-6000, 6001-6050, 6051-6100, 6101-6150, 6151-6200, 6201-6250, 6251-6300, 6301-6350, 6351-6400, 6401-6450, 6451-6500, 6501-6550, 6551-6600, 6601-6650, 6651-6700, 6701-6750, 6751-6800, 6801-6850, 6851-6900, 6901-6950, 6951-7000, 7001-7050, 7051-7100, 7101-7150, 7151-7200, 7201-7250, 7251-7300 or 7301 to the end of the cDNA sequence contained in Clone ID NO:Z, or the complementary strand thereto. In this context "about" includes the particularly recited range or a range larger or smaller by several (5, 4, 3, 2, or 1) nucleotides, at either terminus or at both termini. Preferably, these fragments encode a polypeptide which has a functional activity (e.g., biological activity). More preferably, these polynucleotides can be used as probes or primers as discussed herein. Polynucleotides which hybridize to one or more of these polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions are also encompassed by the invention, as are polypeptides encoded by these polynucleotides.

**[0112]** In the present invention, a "polypeptide fragment" refers to an amino acid sequence which is a portion of that contained in SEQ ID NO:Y, a portion of an amino acid sequence encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2, a portion of an amino acid sequence encoded by the polynucleotide sequence of SEQ ID NO:X, a portion of an amino acid sequence encoded by the complement of the polynucleotide sequence in SEQ ID NO:X, and/or a portion of an amino acid sequence



encoded by the cDNA contained in Clone ID NO:Z. Protein (polypeptide) fragments may be "free-standing," or comprised within a larger polypeptide of which the fragment forms a part or region, most preferably as a single continuous region. Representative examples of polypeptide fragments of the invention, include, for example, fragments comprising, or alternatively consisting of, from about amino acid number 1-20, 21-40, 41-60, 61-80, 81-100, 102-120, 121-140, 141-160, 161-180, 181-200, 201-220, 221-240, 241-260, 261-280, 281-300, 301-320, 321-340, 341-360, 361-380, 381-400, 401-420, 421-440, 441-460, 461-480, 481-500, 501-520, 521-540, 541-560, 561-580, 581-600, 601-620, 621-640, 641-660, 661-680, 681-700, 701-720, 721-740, 741-760, 761-780, 781-800, 801-820, 821-840, 841-860, 861-880, 881-900, 901-920, 921-940, 941-960, 961-980, 981-1000, 1001-1020, 1021-1040, 1041-1060, 1061-1080, 1081-1100, 1101-1120, 1121-1140, 1141-1160, 1161-1180, 1181-1200, 1201-1220, 1221-1240, 1241-1260, 1261-1280, 1281-1300, 1301-1320, 1321-1340, 1341-1360, 1361-1380, 1381-1400, 1401-1420, 1421-1440, or 1441 to the end of the coding region. In a preferred embodiment, polypeptide fragments of the invention include, for example, fragments comprising, or alternatively consisting of, from about amino acid number 1-20, 21-40, 41-60, 61-80, 81-100, 102-120, 121-140, 141-160, 161-180, 181-200, 201-220, 221-240, 241-260, 261-280, 281-300, 301-320, 321-340, 341-360, 361-380, 381-400, 401-420, 421-440, 441-460, 461-480, 481-500, 501-520, 521-540, 541-560, 561-580, 581-600, 601-620, 621-640, 641-660, 661-680, 681-700, 701-720, 721-740, 741-760, 761-780, 781-800, 801-820, 821-840, 841-860, 861-880, 881-900, 901-920, 921-940, 941-960, 961-980, 981-1000, 1001-1020, 1021-1040, 1041-1060, 1061-1080, 1081-1100, 1101-1120, 1121-1140, 1141-1160, 1161-1180, 1181-1200, 1201-1220, 1221-1240, 1241-1260, 1261-1280, 1281-1300, 1301-1320, 1321-1340, 1341-1360, 1361-1380, 1381-1400, 1401-1420, 1421-1440, or 1441 to the end of the coding region of SEQ ID NO:Y. Moreover, polypeptide fragments of the invention may be at least about 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 100, 110, 120, 130, 140, or 150 amino acids in length. In this context "about" includes the particularly recited ranges or values, or ranges or values larger or smaller by several (5, 4, 3, 2, or 1) amino acids, at either extreme or at both extremes. Polynucleotides encoding these polypeptide fragments are also encompassed by the invention.

[0113] Even if deletion of one or more amino acids from the N-terminus of a protein results in modification of loss of one or more biological functions of the protein, other functional activities (e.g., biological activities, ability to multimerize, ability to bind a ligand) may still be retained. For example, the ability of shortened muteins to induce and/or bind to antibodies which recognize the complete or mature forms of the polypeptides generally will be retained when less than the majority of the residues of the complete or mature polypeptide are removed from the N-terminus. Whether a particular polypeptide lacking N-terminal residues of a complete polypeptide retains such immunologic activities can readily be determined by routine methods described herein and otherwise known in the art. It is not unlikely that a mutein with a large number of deleted N-terminal amino acid residues may retain some biological or immunogenic activities. In fact, peptides composed of as few as six amino acid residues may often evoke an immune response.

[0114] Accordingly, polypeptide fragments include the secreted protein as well as the mature form. Further preferred polypeptide fragments include the secreted protein or the mature form having a continuous series of deleted residues from the amino or the carboxy terminus, or both. For example, any number of amino acids, ranging from 1-60, can be deleted from the amino terminus of either the secreted polypeptide or the mature form. Similarly, any number of amino acids, ranging from 1-30, can be deleted from the carboxy terminus of the secreted protein or mature form. Furthermore, any combination of the above amino and carboxy terminus deletions is preferred. Similarly, polynucleotides encoding these polypeptide fragments are also preferred.

[0115] The present invention further provides polypeptides having one or more residues deleted from the amino terminus of the amino acid sequence of a polypeptide disclosed herein (e.g., a polypeptide of SEQ ID NO:Y, a polypeptide encoded by the polynucleotide sequence contained in SEQ ID NO:X or the complement thereof, a polypeptide encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z). In particular, N-terminal deletions may be described by the general formula m-q, where q is a whole integer representing the total number of amino acid residues in a polypeptide of the invention (e.g., the polypeptide disclosed in SEQ ID NO:Y, or the polypeptide encoded by

the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2), and m is defined as any integer ranging from 2 to q-6. Polynucleotides encoding these polypeptides are also encompassed by the invention.

[0116] The present invention further provides polypeptides having one or more residues from the carboxy terminus of the amino acid sequence of a polypeptide disclosed herein (e.g., a polypeptide of SEQ ID NO:Y, a polypeptide encoded by the polynucleotide sequence contained in SEQ ID NO:X, a polypeptide encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z). In particular, C-terminal deletions may be described by the general formula 1-n, where n is any whole integer ranging from 6 to q-1, and where n corresponds to the position of amino acid residue in a polypeptide of the invention. Polynucleotides encoding these polypeptides are also encompassed by the invention.

[0117] In addition, any of the above described N- or C-terminal deletions can be combined to produce a N- and C-terminal deleted polypeptide. The invention also provides polypeptides having one or more amino acids deleted from both the amino and the carboxyl termini, which may be described generally as having residues m-n of a polypeptide encoded by SEQ ID NO:X (e.g., including, but not limited to, the preferred polypeptide disclosed as SEQ ID NO:Y and the polypeptide encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2), the cDNA contained in Clone ID NO:Z, and/or the complement thereof, where n and m are integers as described above. Polynucleotides encoding these polypeptides are also encompassed by the invention.

[0118] Also as mentioned above, even if deletion of one or more amino acids from the C-terminus of a protein results in modification or loss of one or more biological functions of the protein, other functional activities (e.g., biological activities, ability to multimerize, ability to bind a ligand) may still be retained. For example the ability of the shortened mutein to induce and/or bind to antibodies which recognize the complete or mature forms of the polypeptide generally will be retained when less than the majority of the residues of the complete or mature polypeptide are removed from the C-terminus. Whether a particular polypeptide lacking C-terminal residues of a complete polypeptide retains such immunologic activities can readily be determined by routine methods described herein and otherwise known in the art. It is not unlikely that a mutein with a

large number of deleted C-terminal amino acid residues may retain some biological or immunogenic activities. In fact, peptides composed of as few as six amino acid residues may often evoke an immune response.

[0119] The present application is also directed to proteins containing polypeptides at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% identical to a polypeptide sequence set forth herein. In preferred embodiments, the application is directed to proteins containing polypeptides at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% identical to polypeptides having the amino acid sequence of the specific N- and C-terminal deletions. Polynucleotides encoding these polypeptides are also encompassed by the invention.

[0120] Any polypeptide sequence encoded by, for example, the polynucleotide sequences set forth as SEQ ID NO:X or the complement thereof, (presented, for example, in Tables 1A and 2), or the cDNA contained in Clone ID NO:Z, may be analyzed to determine certain preferred regions of the polypeptide. For example, the amino acid sequence of a polypeptide encoded by a polynucleotide sequence of SEQ ID NO:X (e.g., the polypeptide of SEQ ID NO:Y and the polypeptide encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2) or the cDNA contained in Clone ID NO:Z may be analyzed using the default parameters of the DNASTAR computer algorithm (DNASTAR, Inc., 1228 S. Park St., Madison, WI 53715 USA; <http://www.dnastar.com/>).

[0121] Polypeptide regions that may be routinely obtained using the DNASTAR computer algorithm include, but are not limited to, Garnier-Robson alpha-regions, beta-regions, turn-regions, and coil-regions; Chou-Fasman alpha-regions, beta-regions, and turn-regions; Kyte-Doolittle hydrophilic regions and hydrophobic regions; Eisenberg alpha- and beta-amphipathic regions; Karplus-Schulz flexible regions; Emini surface-forming regions; and Jameson-Wolf regions of high antigenic index. Among highly preferred polynucleotides of the invention in this regard are those that encode polypeptides comprising regions that combine several structural features, such as several (e.g., 1, 2, 3 or 4) of the features set out above.

[0122] Additionally, Kyte-Doolittle hydrophilic regions and hydrophobic regions, Emini surface-forming regions, and Jameson-Wolf regions of high antigenic index (i.e.,

containing four or more contiguous amino acids having an antigenic index of greater than or equal to 1.5, as identified using the default parameters of the Jameson-Wolf program) can routinely be used to determine polypeptide regions that exhibit a high degree of potential for antigenicity. Regions of high antigenicity are determined from data by DNASTAR analysis by choosing values which represent regions of the polypeptide which are likely to be exposed on the surface of the polypeptide in an environment in which antigen recognition may occur in the process of initiation of an immune response.

[0123] Preferred polypeptide fragments of the invention are fragments comprising, or alternatively, consisting of, an amino acid sequence that displays a functional activity (e.g. biological activity) of the polypeptide sequence of which the amino acid sequence is a fragment. By a polypeptide displaying a "functional activity" is meant a polypeptide capable of one or more known functional activities associated with a full-length protein, such as, for example, biological activity, antigenicity, immunogenicity, and/or multimerization, as described herein.

[0124] Other preferred polypeptide fragments are biologically active fragments. Biologically active fragments are those exhibiting activity similar, but not necessarily identical, to an activity of the polypeptide of the present invention. The biological activity of the fragments may include an improved desired activity, or a decreased undesirable activity.

[0125] In preferred embodiments, polypeptides of the invention comprise, or alternatively consist of, one, two, three, four, five or more of the antigenic fragments of the polypeptide of SEQ ID NO:Y, or portions thereof. Polynucleotides encoding these polypeptides are also encompassed by the invention.

[0126] The present invention encompasses polypeptides comprising, or alternatively consisting of, an epitope of: the polypeptide sequence shown in SEQ ID NO:Y; a polypeptide sequence encoded by SEQ ID NO:X or the complementary strand thereto; the polypeptide sequence encoded by the portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2; the polypeptide sequence encoded by the cDNA contained in Clone ID NO:Z; or the polypeptide sequence encoded by a polynucleotide that hybridizes to the sequence of SEQ ID NO:X, the complement of the sequence of SEQ ID NO:X, the complement of a portion of SEQ ID NO:X as defined in columns 8 and 9 of Table 2, or

the cDNA sequence contained in Clone ID NO:Z under stringent hybridization conditions or alternatively, under lower stringency hybridization as defined *supra*. The present invention further encompasses polynucleotide sequences encoding an epitope of a polypeptide sequence of the invention (such as, for example, the sequence disclosed in SEQ ID NO:X, or a fragment thereof), polynucleotide sequences of the complementary strand of a polynucleotide sequence encoding an epitope of the invention, and polynucleotide sequences which hybridize to the complementary strand under stringent hybridization conditions or alternatively, under lower stringency hybridization conditions defined *supra*.

[0127] The term "epitopes," as used herein, refers to portions of a polypeptide having antigenic or immunogenic activity in an animal, preferably a mammal, and most preferably in a human. In a preferred embodiment, the present invention encompasses a polypeptide comprising an epitope, as well as the polynucleotide encoding this polypeptide. An "immunogenic epitope," as used herein, is defined as a portion of a protein that elicits an antibody response in an animal, as determined by any method known in the art, for example, by the methods for generating antibodies described *infra*. (See, for example, Geysen et al., Proc. Natl. Acad. Sci. USA 81:3998-4002 (1983)). The term "antigenic epitope," as used herein, is defined as a portion of a protein to which an antibody can immunospecifically bind its antigen as determined by any method well known in the art, for example, by the immunoassays described herein. Immunospecific binding excludes non-specific binding but does not necessarily exclude cross-reactivity with other antigens. Antigenic epitopes need not necessarily be immunogenic.

[0128] Fragments which function as epitopes may be produced by any conventional means. (See, e.g., Houghten, R. A., Proc. Natl. Acad. Sci. USA 82:5131-5135 (1985) further described in U.S. Patent No. 4,631,211.)

[0129] In the present invention, antigenic epitopes preferably contain a sequence of at least 4, at least 5, at least 6, at least 7, more preferably at least 8, at least 9, at least 10, at least 11, at least 12, at least 13, at least 14, at least 15, at least 20, at least 25, at least 30, at least 40, at least 50, and, most preferably, between about 15 to about 30 amino acids. Preferred polypeptides comprising immunogenic or antigenic epitopes are at least 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, or 100 amino acid

residues in length. Additional non-exclusive preferred antigenic epitopes include the antigenic epitopes disclosed herein, as well as portions thereof. Antigenic epitopes are useful, for example, to raise antibodies, including monoclonal antibodies, that specifically bind the epitope. Preferred antigenic epitopes include the antigenic epitopes disclosed herein, as well as any combination of two, three, four, five or more of these antigenic epitopes. Antigenic epitopes can be used as the target molecules in immunoassays. (See, for instance, Wilson et al., Cell 37:767-778 (1984); Sutcliffe et al., Science 219:660-666 (1983)).

[0130] Non-limiting examples of epitopes of polypeptides that can be used to generate antibodies of the invention include a polypeptide comprising, or alternatively consisting of, at least one, two, three, four, five, six or more of the portion(s) of SEQ ID NO:Y specified in column 6 of Table 1. These polypeptide fragments have been determined to bear antigenic epitopes of the proteins of the invention by the analysis of the Jameson-Wolf antigenic index which is included in the DNASTar suite of computer programs. By "comprise" it is intended that a polypeptide contains at least one, two, three, four, five, six or more of the portion(s) of SEQ ID NO:Y shown in column 6 of Table 1, but it may contain additional flanking residues on either the amino or carboxyl termini of the recited portion. Such additional flanking sequences are preferably sequences naturally found adjacent to the portion; i.e., contiguous sequence shown in SEQ ID NO:Y. The flanking sequence may, however, be sequences from a heterologous polypeptide, such as from another protein described herein or from a heterologous polypeptide not described herein. In particular embodiments, epitope portions of a polypeptide of the invention comprise one, two, three, or more of the portions of SEQ ID NO:Y shown in column 6 of Table 1. Polynucleotides encoding these polypeptides are also encompassed by the invention.

[0131] Similarly, immunogenic epitopes can be used, for example, to induce antibodies according to methods well known in the art. See, for instance, Sutcliffe et al., *supra*; Wilson et al., *supra*; Chow et al., Proc. Natl. Acad. Sci. USA 82:910-914; and Bittle et al., J. Gen. Virol. 66:2347-2354 (1985). Preferred immunogenic epitopes include the immunogenic epitopes disclosed herein, as well as any combination of two, three, four, five or more of these immunogenic epitopes. The polypeptides comprising one

or more immunogenic epitopes may be presented for eliciting an antibody response together with a carrier protein, such as an albumin, to an animal system (such as rabbit or mouse), or, if the polypeptide is of sufficient length (at least about 25 amino acids), the polypeptide may be presented without a carrier. However, immunogenic epitopes comprising as few as 8 to 10 amino acids have been shown to be sufficient to raise antibodies capable of binding to, at the very least, linear epitopes in a denatured polypeptide (e.g., in Western blotting).

[0132] Epitope-bearing polypeptides of the present invention may be used to induce antibodies according to methods well known in the art including, but not limited to, *in vivo* immunization, *in vitro* immunization, and phage display methods. See, e.g., Sutcliffe et al., *supra*; Wilson et al., *supra*, and Bittle et al., J. Gen. Virol., 66:2347-2354 (1985). If *in vivo* immunization is used, animals may be immunized with free peptide; however, anti-peptide antibody titer may be boosted by coupling the peptide to a macromolecular carrier, such as keyhole limpet hemacyanin (KLH) or tetanus toxoid. For instance, peptides containing cysteine residues may be coupled to a carrier using a linker such as maleimidobenzoyl- N-hydroxysuccinimide ester (MBS), while other peptides may be coupled to carriers using a more general linking agent such as glutaraldehyde. Animals such as rabbits, rats and mice are immunized with either free or carrier- coupled peptides, for instance, by intraperitoneal and/or intradermal injection of emulsions containing about 100 µg of peptide or carrier protein and Freund's adjuvant or any other adjuvant known for stimulating an immune response. Several booster injections may be needed, for instance, at intervals of about two weeks, to provide a useful titer of anti-peptide antibody which can be detected, for example, by ELISA assay using free peptide adsorbed to a solid surface. The titer of anti-peptide antibodies in serum from an immunized animal may be increased by selection of anti-peptide antibodies, for instance, by adsorption to the peptide on a solid support and elution of the selected antibodies according to methods well known in the art.

[0133] As one of skill in the art will appreciate, and as discussed above, the polypeptides of the present invention (e.g., those comprising an immunogenic or antigenic epitope) can be fused to heterologous polypeptide sequences. For example, polypeptides of the present invention (including fragments or variants thereof), may be fused with the



constant domain of immunoglobulins (IgA, IgE, IgG, IgM), or portions thereof (CH1, CH2, CH3, or any combination thereof and portions thereof, resulting in chimeric polypeptides. By way of another non-limiting example, polypeptides and/or antibodies of the present invention (including fragments or variants thereof) may be fused with albumin (including but not limited to recombinant human serum albumin or fragments or variants thereof (see, e.g., U.S. Patent No. 5,876,969, issued March 2, 1999, EP Patent 0 413 622, and U.S. Patent No. 5,766,883, issued June 16, 1998, herein incorporated by reference in their entirety)). In a preferred embodiment, polypeptides and/or antibodies of the present invention (including fragments or variants thereof) are fused with the mature form of human serum albumin (i.e., amino acids 1 – 585 of human serum albumin as shown in Figures 1 and 2 of EP Patent 0 322 094) which is herein incorporated by reference in its entirety. In another preferred embodiment, polypeptides and/or antibodies of the present invention (including fragments or variants thereof) are fused with polypeptide fragments comprising, or alternatively consisting of, amino acid residues 1-z of human serum albumin, where z is an integer from 369 to 419, as described in U.S. Patent 5,766,883 herein incorporated by reference in its entirety. Polypeptides and/or antibodies of the present invention (including fragments or variants thereof) may be fused to either the N- or C-terminal end of the heterologous protein (e.g., immunoglobulin Fc polypeptide or human serum albumin polypeptide). Polynucleotides encoding fusion proteins of the invention are also encompassed by the invention.

[0134] Such fusion proteins as those described above may facilitate purification and may increase half-life *in vivo*. This has been shown for chimeric proteins consisting of the first two domains of the human CD4-polypeptide and various domains of the constant regions of the heavy or light chains of mammalian immunoglobulins. See, e.g., EP 394,827; Traunecker et al., *Nature*, 331:84-86 (1988). Enhanced delivery of an antigen across the epithelial barrier to the immune system has been demonstrated for antigens (e.g., insulin) conjugated to an FcRn binding partner such as IgG or Fc fragments (see, e.g., PCT Publications WO 96/22024 and WO 99/04813). IgG Fusion proteins that have a disulfide-linked dimeric structure due to the IgG portion disulfide bonds have also been found to be more efficient in binding and neutralizing other molecules than monomeric polypeptides or fragments thereof alone. See, e.g., Fountoulakis et al., J.

Biochem., 270:3958-3964 (1995). Nucleic acids encoding the above epitopes can also be recombined with a gene of interest as an epitope tag (e.g., the hemagglutinin (HA) tag or flag tag) to aid in detection and purification of the expressed polypeptide. For example, a system described by Janknecht et al. allows for the ready purification of non-denatured fusion proteins expressed in human cell lines (Janknecht et al., 1991, Proc. Natl. Acad. Sci. USA 88:8972- 897). In this system, the gene of interest is subcloned into a vaccinia recombination plasmid such that the open reading frame of the gene is translationally fused to an amino-terminal tag consisting of six histidine residues. The tag serves as a matrix binding domain for the fusion protein. Extracts from cells infected with the recombinant vaccinia virus are loaded onto Ni<sup>2+</sup> nitriloacetic acid-agarose column and histidine-tagged proteins can be selectively eluted with imidazole-containing buffers.

#### *Fusion Proteins*

[0135] Any polypeptide of the present invention can be used to generate fusion proteins. For example, the polypeptide of the present invention, when fused to a second protein, can be used as an antigenic tag. Antibodies raised against the polypeptide of the present invention can be used to indirectly detect the second protein by binding to the polypeptide. Moreover, because secreted proteins target cellular locations based on trafficking signals, polypeptides of the present invention which are shown to be secreted can be used as targeting molecules once fused to other proteins.

[0136] Examples of domains that can be fused to polypeptides of the present invention include not only heterologous signal sequences, but also other heterologous functional regions. The fusion does not necessarily need to be direct, but may occur through linker sequences.

[0137] In certain preferred embodiments, proteins of the invention are fusion proteins comprising an amino acid sequence that is an N and/or C- terminal deletion of a polypeptide of the invention. In preferred embodiments, the invention is directed to a fusion protein comprising an amino acid sequence that is at least 80%, 85%, 90%, 95%, 96%, 97%, 98% or 99% identical to a polypeptide sequence of the invention. Polynucleotides encoding these proteins are also encompassed by the invention.

[0138] Moreover, fusion proteins may also be engineered to improve characteristics of the polypeptide of the present invention. For instance, a region of additional amino acids, particularly charged amino acids, may be added to the N-terminus of the polypeptide to improve stability and persistence during purification from the host cell or subsequent handling and storage. Also, peptide moieties may be added to the polypeptide to facilitate purification. Such regions may be removed prior to final preparation of the polypeptide. The addition of peptide moieties to facilitate handling of polypeptides are familiar and routine techniques in the art.

[0139] As one of skill in the art will appreciate that, as discussed above, polypeptides of the present invention, and epitope-bearing fragments thereof, can be combined with heterologous polypeptide sequences. For example, the polypeptides of the present invention may be fused with heterologous polypeptide sequences, for example, the polypeptides of the present invention may be fused with the constant domain of immunoglobulins (IgA, IgE, IgG, IgM) or portions thereof (CH1, CH2, CH3, and any combination thereof, including both entire domains and portions thereof), or albumin (including, but not limited to, native or recombinant human albumin or fragments or variants thereof (see, e.g., U.S. Patent No. 5,876,969, issued March 2, 1999, EP Patent 0 413 622, and U.S. Patent No. 5,766,883, issued June 16, 1998, herein incorporated by reference in their entirety)), resulting in chimeric polypeptides. For example, EP-A-O 464 533 (Canadian counterpart 2045869) discloses fusion proteins comprising various portions of constant region of immunoglobulin molecules together with another human protein or part thereof. In many cases, the Fc part in a fusion protein is beneficial in therapy and diagnosis, and thus can result in, for example, improved pharmacokinetic properties (EP-A 0232 262). Alternatively, deleting the Fc part after the fusion protein has been expressed, detected, and purified, would be desired. For example, the Fc portion may hinder therapy and diagnosis if the fusion protein is used as an antigen for immunizations. In drug discovery, for example, human proteins, such as hIL-5, have been fused with Fc portions for the purpose of high-throughput screening assays to identify antagonists of hIL-5. See, D. Bennett et al., *J. Molecular Recognition* 8:52-58 (1995); K. Johanson et al., *J. Biol. Chem.* 270:9459-9471 (1995).

[0140] Moreover, the polypeptides of the present invention can be fused to marker sequences, such as a polypeptide which facilitates purification of the fused polypeptide. In preferred embodiments, the marker amino acid sequence is a hexa-histidine peptide, such as the tag provided in a pQE vector (QIAGEN, Inc., 9259 Eton Avenue, Chatsworth, CA, 91311), among others, many of which are commercially available. As described in Gentz et al., Proc. Natl. Acad. Sci. USA 86:821-824 (1989), for instance, hexa-histidine provides for convenient purification of the fusion protein. Another peptide tag useful for purification, the "HA" tag, corresponds to an epitope derived from the influenza hemagglutinin protein (Wilson et al., Cell 37:767 (1984).)

[0141] Additional fusion proteins of the invention may be generated through the techniques of gene-shuffling, motif-shuffling, exon-shuffling, and/or codon-shuffling (collectively referred to as "DNA shuffling"), briefly described below, and further described herein. DNA shuffling may be employed to modulate the activities of polypeptides of the invention, such methods can be used to generate polypeptides with altered activity, as well as agonists and antagonists of the polypeptides. See, generally, U.S. Patent Nos. 5,605,793; 5,811,238; 5,830,721; 5,834,252; and 5,837,458, and Patten et al., Curr. Opin. Biotechnol. 8:724-33 (1997); Harayama, Trends Biotechnol. 16(2):76-82 (1998); Hansson et al., J. Mol. Biol. 287:265-76 (1999); and Lorenzo and Blasco, Biotechniques 24(2):308-13 (1998); each of these patents and publications are hereby incorporated by reference in its entirety). In a preferred embodiment, one or more components, motifs, sections, parts, domains, fragments, etc., of a polynucleotide encoding a polypeptide of the invention may be recombined with one or more components, motifs, sections, parts, domains, fragments, etc., of one or more heterologous molecules encoding a heterologous polypeptide.

[0142] Thus, any of these above fusions can be engineered using the polynucleotides or the polypeptides of the present invention.

#### **Recombinant and Synthetic Production of Polypeptides of the Invention**

[0143] The present invention also relates to vectors containing the polynucleotide of the present invention, host cells, and the production of polypeptides by synthetic and recombinant techniques. The vector may be, for example, a phage, plasmid, viral, or

retroviral vector. Retroviral vectors may be replication competent or replication defective. In the latter case, viral propagation generally will occur only in complementing host cells.

[0144] The polynucleotides of the invention may be joined to a vector containing a selectable marker for propagation in a host. Generally, a plasmid vector is introduced in a precipitate, such as a calcium phosphate precipitate, or in a complex with a charged lipid. If the vector is a virus, it may be packaged *in vitro* using an appropriate packaging cell line and then transduced into host cells.

[0145] The polynucleotide insert should be operatively linked to an appropriate promoter, such as the phage lambda PL promoter, the *E. coli lac*, *trp*, *phoA* and *tac* promoters, the SV40 early and late promoters and promoters of retroviral LTRs, to name a few. Other suitable promoters will be known to the skilled artisan. The expression constructs will further contain sites for transcription initiation, termination, and, in the transcribed region, a ribosome binding site for translation. The coding portion of the transcripts expressed by the constructs will preferably include a translation initiating codon at the beginning and a termination codon (UAA, UGA or UAG) appropriately positioned at the end of the polypeptide to be translated.

[0146] As indicated, the expression vectors will preferably include at least one selectable marker. Such markers include dihydrofolate reductase, G418 or neomycin resistance, glutamine synthase, for eukaryotic cell culture and tetracycline, kanamycin or ampicillin resistance genes for culturing in *E. coli* and other bacteria. Representative examples of appropriate hosts include, but are not limited to, bacterial cells, such as *E. coli*, *Streptomyces* and *Salmonella typhimurium* cells; fungal cells, such as yeast cells (e.g., *Saccharomyces cerevisiae* or *Pichia pastoris* (ATCC Accession No. 201178)); insect cells such as *Drosophila* S2 and *Spodoptera* Sf9 cells; animal cells such as CHO, COS, 293, NSO and Bowes melanoma cells; and plant cells. Appropriate culture mediums and conditions for the above-described host cells are known in the art.

[0147] Among vectors preferred for use in bacteria include pQE70, pQE60 and pQE-9, available from QIAGEN, Inc.; pBluescript vectors, Phagescript vectors, pNH8A, pNH16a, pNH18A, pNH46A, available from Stratagene Cloning Systems, Inc.; and ptc99a, pKK223-3, pKK233-3, pDR540, pRIT5 available from Pharmacia Biotech, Inc. Among preferred eukaryotic vectors are pWLNEO, pSV2CAT, pOG44, pXT1 and pSG

available from Stratagene; and pSVK3, pBPV, pMSG and pSVL available from Pharmacia. Preferred expression vectors for use in yeast systems include, but are not limited to pYES2, pYD1, pTEF1/Zeo, pYES2/GS, pPICZ, pGAPZ, pGAPZalph, pPIC9, pPIC3.5, pHIL-D2, pHIL-S1, pPIC3.5K, pPIC9K, and PAO815 (all available from Invitrogen, Carlsbad, CA). Other suitable vectors will be readily apparent to the skilled artisan.

[0148] Vectors which use glutamine synthase (GS) or DHFR as the selectable markers can be amplified in the presence of the drugs methionine sulfoximine or methotrexate, respectively. An advantage of glutamine synthase based vectors is the availability of cell lines (e.g., the murine myeloma cell line, NS0) which are glutamine synthase negative. Glutamine synthase expression systems can also function in glutamine synthase expressing cells (e.g., Chinese Hamster Ovary (CHO) cells) by providing additional inhibitor to prevent the functioning of the endogenous gene. A glutamine synthase expression system and components thereof are detailed in PCT publications: WO87/04462; WO86/05807; WO89/01036; WO89/10404; and WO91/06657 which are hereby incorporated in their entireties by reference herein. Additionally, glutamine synthase expression vectors can be obtained from Lonza Biologics, Inc. (Portsmouth, NH). Expression and production of monoclonal antibodies using a GS expression system in murine myeloma cells is described in Bebbington et al., *Bio/technology* 10:169(1992) and in Biblia and Robinson *Biotechnol. Prog.* 11:1 (1995) which are herein incorporated by reference.

[0149] The present invention also relates to host cells containing the above-described vector constructs described herein, and additionally encompasses host cells containing nucleotide sequences of the invention that are operably associated with one or more heterologous control regions (e.g., promoter and/or enhancer) using techniques known of in the art. The host cell can be a higher eukaryotic cell, such as a mammalian cell (e.g., a human derived cell), or a lower eukaryotic cell, such as a yeast cell, or the host cell can be a prokaryotic cell, such as a bacterial cell. A host strain may be chosen which modulates the expression of the inserted gene sequences, or modifies and processes the gene product in the specific fashion desired. Expression from certain promoters can be elevated in the presence of certain inducers; thus expression of the genetically engineered